ViewSonic™

CD4636
LCD Commercial Display

- User Guide
- Guide de l'utilisateur
- Guía del usuario
- Bedienungsanleitung
- Руководство пользователя
- 使用手冊

Model No. : VS13512

Compliance Information

For U.S.A.

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

For Canada

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada**.**

CE Conformity for European Countries

The device complies with the EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

Following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).

The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local law.

If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than, 0.002% Cadmium, or more than 0.004% Lead.

Important Safety Instructions

1. Read these instructions completely before using the equipment.
2. Keep these instructions in a safe place.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this equipment near water. Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
6. Do not block any ventilation openings. Install the equipment in accordance with the manufacturer's instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
8. Do not attempt to circumvent the safety provisions of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the plug does not fit into your outlet, consult an electrician for replacement of the outlet.
9. Protect the power cord from being tread upon or pinched, particularly at the plug, and the point where if emerges from the equipment. Be sure that the power outlet is located near the equipment so that it is easily accessible.
10. Only use attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the equipment. When a cart is used, use caution when moving the cart/equipment combination to avoid injury from tipping over.

12. Unplug this equipment when it will be unused for long periods of time.
13. Refer all servicing to qualified service personnel. Service is required when the unit has been damaged in any way, such as: if the power-supply cord or plug is damaged, if liquid is spilled onto or objects fall into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.

Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0,1%	< 0,1%
Mercury (Hg)	0,1%	< 0,1%
Cadmium (Cd)	0,01%	< 0,01%
Hexavalent Chromium (Cr6+)	0,1%	< 0,1%
Polybrominated biphenyls (PBB)	0,1%	< 0,1%
Polybrominated diphenyl ethers (PBDE)	0,1%	< 0,1%

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.
2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).
3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
4. Lead as an allotting element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a cooper alloy containing up to 4% lead by weight.

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Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: www.viewsonic.com.

For Your Records

Product Name:	CD4636 ViewSonic LCD Commercial Display
Model Number:	VS13512
Document Number:	CD4636_UG_ENG Rev. 1A 08-24-10
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

The lamp in this product contains mercury which can be dangerous to you and the environment.

Please use care and dispose of in accordance with local, state or federal laws.

ViewSonic respects the environment and is committed to working and living green.

Thank you for being part of Smarter, Greener Computing.

Please visit ViewSonic website to learn more.

1. USA: www.viewsonic.com/company/green/
2. Europe: www.viewsoniceurope.com/uk/support/recycling-information/
3. Taiwan: recycle.epa.gov.tw/recycle/index2.aspx

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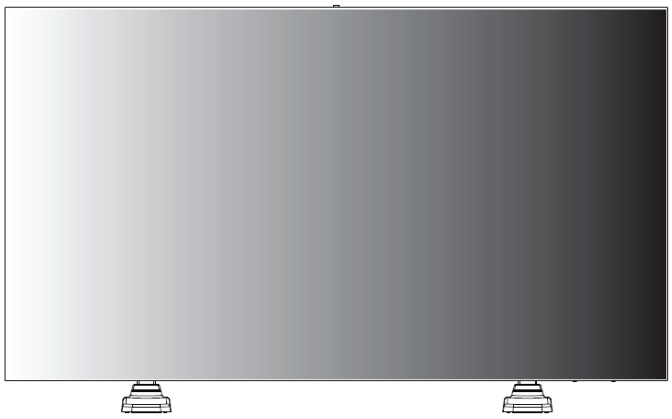
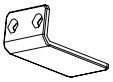
Package Contents

The LCD monitor pack* should include:

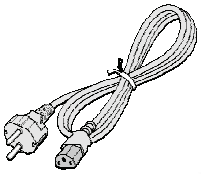
- LCD monitor
- Power cord (1.8 m)
- VGA Signal Cable (1.8 m)
- CD User Manual & QSG
- Remote Control and AAA Batteries



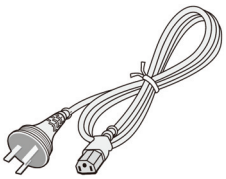


Main switch cover

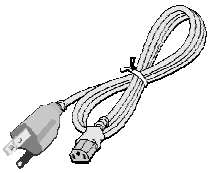
* The supplied power cord varies depending on destination.



For EU



For China



For North America

Power cord

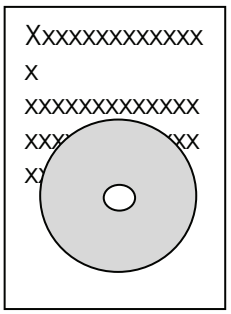
* Please make sure that for all other regions, apply a power cord that conforms to the AC voltage of the power socket and has been approved by and complies with the safety regulations of the particular country.

* You might like to save the package box and packing material for shipping the monitor.

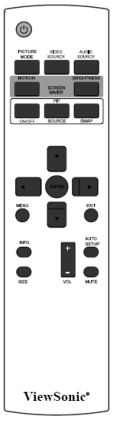
* The following components are prepared as options.

- External Speakers
- Table stand

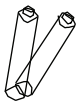
- Main switch cover
- Screw for Main Switch cover x2
- Clamper x 2
- Screw for Clamper x 2



CD User Manual & QSG



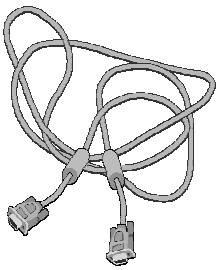
Screw (M3 x 5) x 2



Remote Control and AAA Batteries

Screw (M4 x 10) x 2

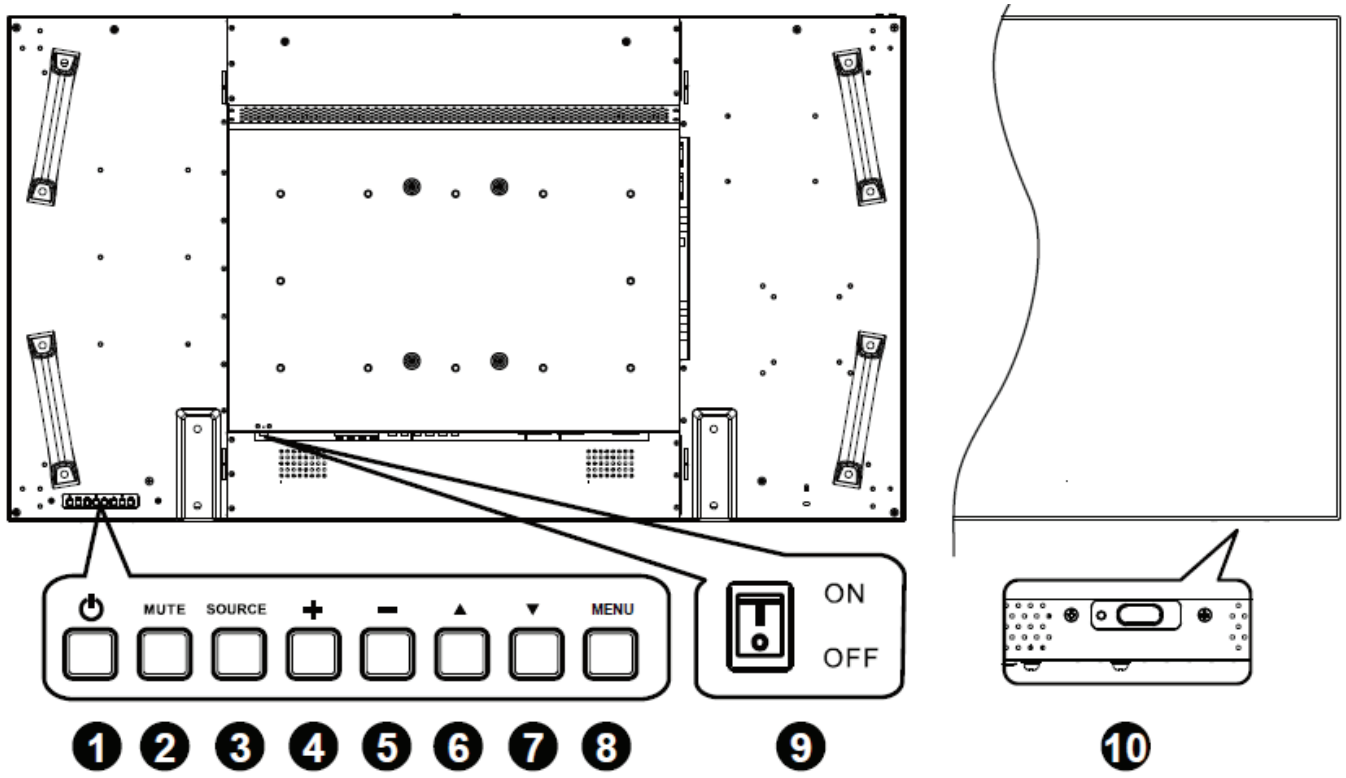
Clamper x 2



Video Signal Cable (D-SUB to D-SUB Cable)

Parts Name and Functions

Control Panel



❶ **POWER button (⏻) :** To switch the power on/off.

❷ **MUTE button :** To switch the audio mute ON/OFF.

❸ **SOURCE button** : To set the function while OSD menu is on or to activate input selection menu while OSD menu is off.

❹ **PLUS (+) button** : To increase the adjustment while OSD menu is on, or to increase the audio output level while the OSD menu is off.

❺ **MINUS (-) button** : To decrease the adjustment while OSD menu is on, or to decrease the audio output level while the OSD menu is off.

❻ **UP (▲) button** : To move the highlight bar up to adjust the selected item while OSD menu is on, or to activate the OSD menu when the OSD menu is off.

❼ **DOWN (▼) button :**To move the highlight bar down to adjust the selected item while OSD menu is on, or to activate the OSD menu when the OSD menu is off.

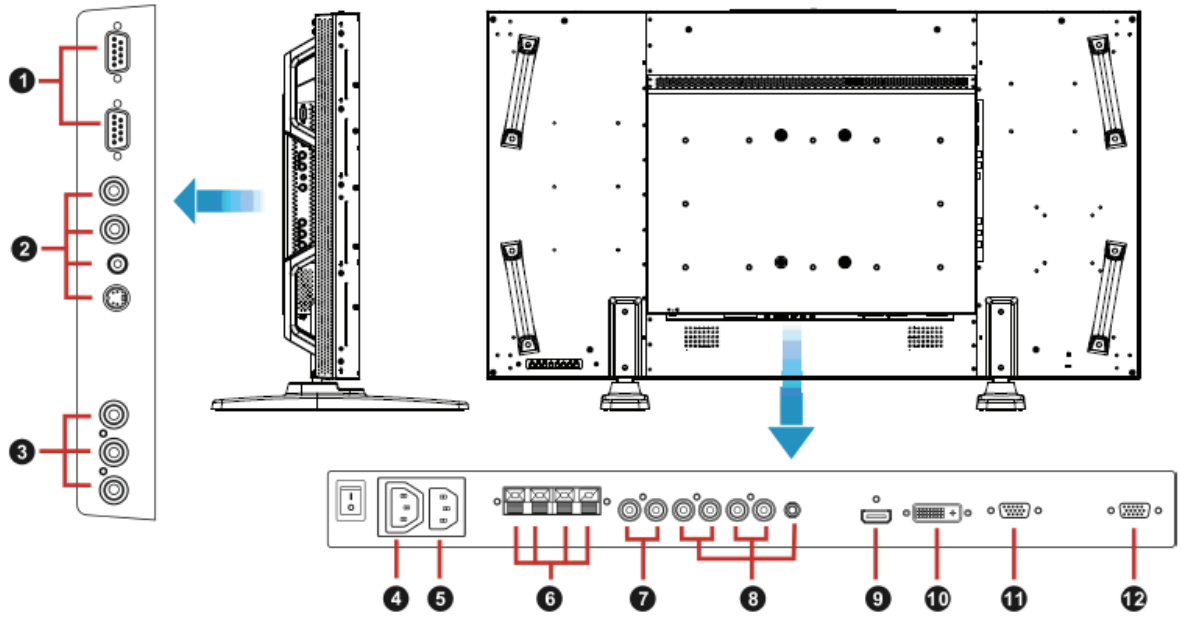
❽ **MENU button** : To return to previous menu while OSD menu is on or to activate the OSD menu when the OSD menu is off.

❾ **Main Power Switch :** To turn the main power on/off.

❿ **Remote control sensor, Power indicator and ambient light sensor** : To receive the IR signal from the remote control. The indicator would show green when the LCD monitor is active and would turn red when the LCD is POWER OFF. While in the case of the system is in power save mode, it would show both green and red. When SCHEDULE is enabled, it would blink green and glow red. If the indicator blinks red , it tells that a failure is detected. The image brightness will be auto adjusted when “LIGHT SENSOR” set to “ON” on OSD menu.

NOTE: Keyboard Control Lock Mode This function completely disables the access to all Keyboard Control functions. To enable the keyboard control lock, press both of “▲” and “▼” buttons and hold down continuously for more than 3 seconds. To recover back to the user mode, press both of “▲” and “▼” and hold continuously for three 3 seconds.

Terminal Panel



❶ EXTERNAL CONTROL (mini D-Sub 9 pin)

This is for serial connection when multiple monitors are connected. To achieve remote management through RS232C commands (refer to the RS232C remote control user manual), connect the RS232C OUT connector from a computer or from a different monitor to the RS232C IN connector from your monitor. The same RS232C commands can be looped through by connecting the RS232C OUT of this monitor to the next RS232C IN.

❷ VIDEO IN/OUT

VIDEO IN connector (BNC and RCA): To input a composite video signal. Note that BNC and RCA are not available at the same time.

VIDEO OUT connector (BNC): To output the composite video signal from VIDEO IN connector.

S-VIDEO IN connector (MINI DIN 4 pin): To input the S-video (Y/C separate signal).

❸ COMPONENT IN [Y, Pb, Pr] (BNC)

To connect an equipment such as a DVD player, HDTV device, or Laser disc player.

❹ AC OUT connector

Bypass AC power output from AC IN connector. (Rating : 100~240Vac, 50-60Hz, 3A Max.)

❺ AC IN connector

To connect with the supplied power cord.

❻ EXTERNAL SPEAKER TERMINAL

To output the audio signal to external speakers from AUDIO IN 1, 2, 3 jack or HDMI.

❼ AUDIO OUT

To output the audio signal from the AUDIO IN 1,2 and 3 jack or HDMI.

❽ AUDIO IN 1, 2, 3

To input audio signal from external equipment such as a computer, VCR or DVD player.

❾ HDMI IN

To input digital video/audio signals from a digital equipment or computer.

❿ DVI-D IN

To input digital video signals from a digital equipment or computer.

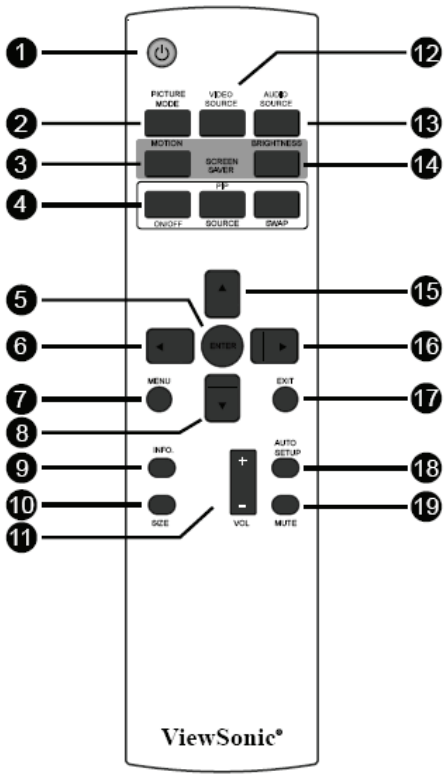
⓫ VGA IN (mini D-Sub 15 pin)

To input analog RGB signals from a computer or other RGB equipment.

⓬ VGA OUT (mini D-Sub 15 pin)

To output the signal from VGA IN.

Remote Control



❶ POWER button

To turn the power on/off.
If LED Power Indicator on the monitor is not lightening, then the remote control will not work.

❷ PICTURE MODE button

To select picture mode from [STANDARD], [CINEMA], [VIVID], [SOFT]
STANDARD: for images (Factory setting)
CINEMA: for movies.
VIVID: for moving image such as Video
SOFT: for text based images

❸ MONTION button

To start the MOTION setting in SCREEN SAVER OSD function. If not OFF ,to expanded image slightly and moves 4 directions (up,down,right,left) periodically

❹ PIP (Picture In Picture) button

ON/OFF button: To turn PIP mode ON/OFF,and select different mode.
SOURCE button: To select the input signal for the sub-picture.
SWEP button: To exchange between the main picture and sub-picture.
Note:
The “PIP” and “POP” modes do not work if the screen size is “CUSTOM” , “DYNAMIC” or “REAL”.

❺ ENTER button

To activate the setting with OSD menu.

❻ LEFT button

To decrease the adjustment with OSD menu.
To move the sub-picture left when in “PIP” mode.

❼ MENU button

To turn the OSD menu on/off.

❽ DOWN button

To move the highlight bar down to adjust the selected item when OSD menu is on.
To move the sub-picture down when in “PIP” mode.

❾ INFO. button

To turn on/off the setting information displayed on the right-up corner of the screen.

❿ SIZE button

To select the picture size from [FULL], [NORMAL], [CUSTOM] , [DYNAM IC] and [REAL].

⓫ VOLUME button

VOL＋ button: To increase the audio output level.
VOL－ button；To decrease the audio output level

⓬ VIDEO SOURCE button

To activate input selection menu, and push “▲” or “▼” to select input source from [HDMI], [DVI-D], [VGA],[COMPONENT], [S-VIDEO] and [VIDEO], and then push “ENTER” to switch to selected input source.

⓭ AUDIO SOURCE button

To activate audio selection menu, and push “▲” or “▼” to select audio source from [AUDIO1], [AUDIO2], [AUDIO3] and [HDMI], and then push “ENTER” to switch to selected audio source.

⓮ BRIGHTNESS button

To start the BRIGHTNESS setting in SCREEN SAVER OSD function, and then push "▶" or "◀" button to adjust the value[OFF][LOW][MIDDLE] [HIGH].

⓯ UP button

To move the highlight bar up to adjust the selected item when OSD menu is on.
To move the sub-picture up when in “PIP” mode.

⓰ RIGHT button

To increase the adjustment with OSD menu.
To move the sub-picture right when in “PIP” mode.

⓱ EXIT button

To turn to the previous OSD menu.

⓲ AUTO SETUP button

To execute the AUTO ADJUST function.

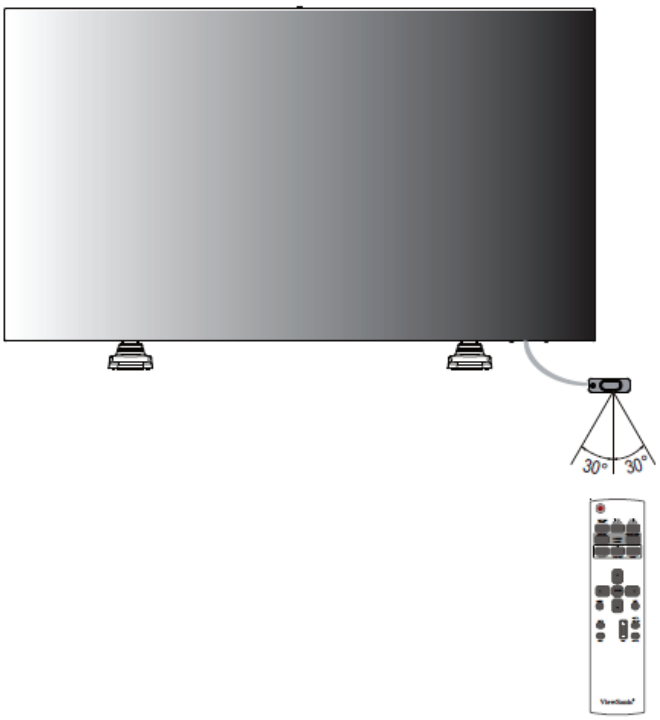
⓳ MUTE button

To turn the mute function on/off.

Operating Range for the Remote Control

Point the top of the remote control towards the LCD monitor's remote sensor during button operation.

Use the remote control within a distance ≤ 2 m/ 6.6 ft from the front of the LCD monitor's remote control sensor and within a horizontal and vertical angle 30° with a distance ≤ 2 m/ 6.6 ft.



NOTE:

The remote control system may not function when direct sunlight or strong illumination strikes the remote control sensor of the LCD monitor, or when there is an obstacle in the radiation path.

Handling the remote control

* Do not subject to strong shock.
* Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately.
* Avoid exposure to heat and steam.
* Other than to install the batteries, do not open the remote control.

Setup Procedure

1. Install the system on the right location

CAUTION:

THE LCD MONITOR MUST BE MOVED OR INSTALLED BY TWO OR MORE PERSONS.

Failure to follow this caution may result in injury and damage when the LCD monitor falls.

CAUTION:

DO NOT ATTEMPT TO INSTALL THE LCD MONITOR BY YOURSELF.

The LCD display must be installed by a qualified technician. Contact your dealer for more information.

CAUTION:

DO NOT MOUNT OR OPERATE THE DISPLAY UPSIDE DOWN, FACE UP OR FACE DOWN.IT'S POSSIBILITY TO CLOCKWISE 90 DEGREES MOUNT. BUT DO NOT COUNTERCLOCKWISE 90 DEGREES MOUNT.

CAUTION:

DO NOT INSTALL THE LCD MONITOR WHERE IT WILL BE EXPOSED TO DIRECT SUNLIGHT.

Failure to follow this caution will result in display defects.

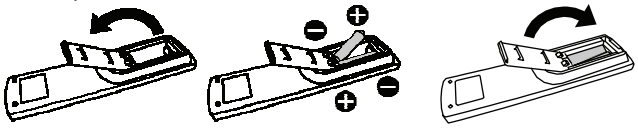
IMPORTANT:

Lay the protective sheet, which was wrapped around the LCD monitor when it was packaged, beneath the LCD monitor so as not to scratch the panel.

2. Install the remote control batteries

The remote control is powered by 1.5V AAA batteries. To install or replace batteries:

1. Press and slide to open the cover.
2. Align the batteries according to the (+) and (–) indications inside the case.
3. Replace the cover.



CAUTION:

Incorrect use of batteries can result in leaks or bursting. Be careful especially about the following points.

- Place "AAA" batteries matching the + and - signs on each battery to the + and - signs of the battery compartment.
- Do not mix battery types.
- Do not combine new batteries with used ones. It causes shorter battery life or leakage of batteries.
- Remove dead batteries immediately to prevent battery liquid from leaking into the battery compartment. Don't touch exposed battery acid, it cause damage to your skin.

NOTE:

If you do not intend to use the Remote Control for a long period, remove the batteries.

3. Connect to external equipment

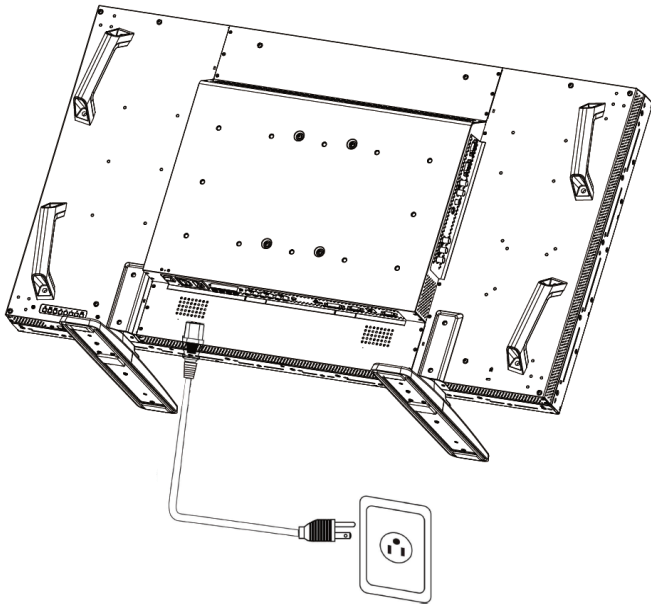
- To protect the connected equipment, turn off the main power before making connections.
- Please refer to section "Connectivity" P.18~P.22 for operations.

4. Connect power cord

- The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.
- Fully insert the prongs into the power outlet socket. A loose connection may cause malfunctioning of the device.

NOTE:

Please refer to "Safety Operation" section of this manual for proper selection of AC power cord.



5. Turn on the power of the attached external equipment

When connected with a computer, turn on the power of the computer first.

6. Operate the attached external equipment

Display the signal from the external equipment by selecting the correct video and audio sources first.

7. Adjust the sound

Make adjustments to lower or to rise the volume as required.

8. Adjust the screen

Make adjustments to the display position or settings if required.

9. Adjust the image

Make adjustments to brightness or contrast if required.

10. Recommended Adjustment

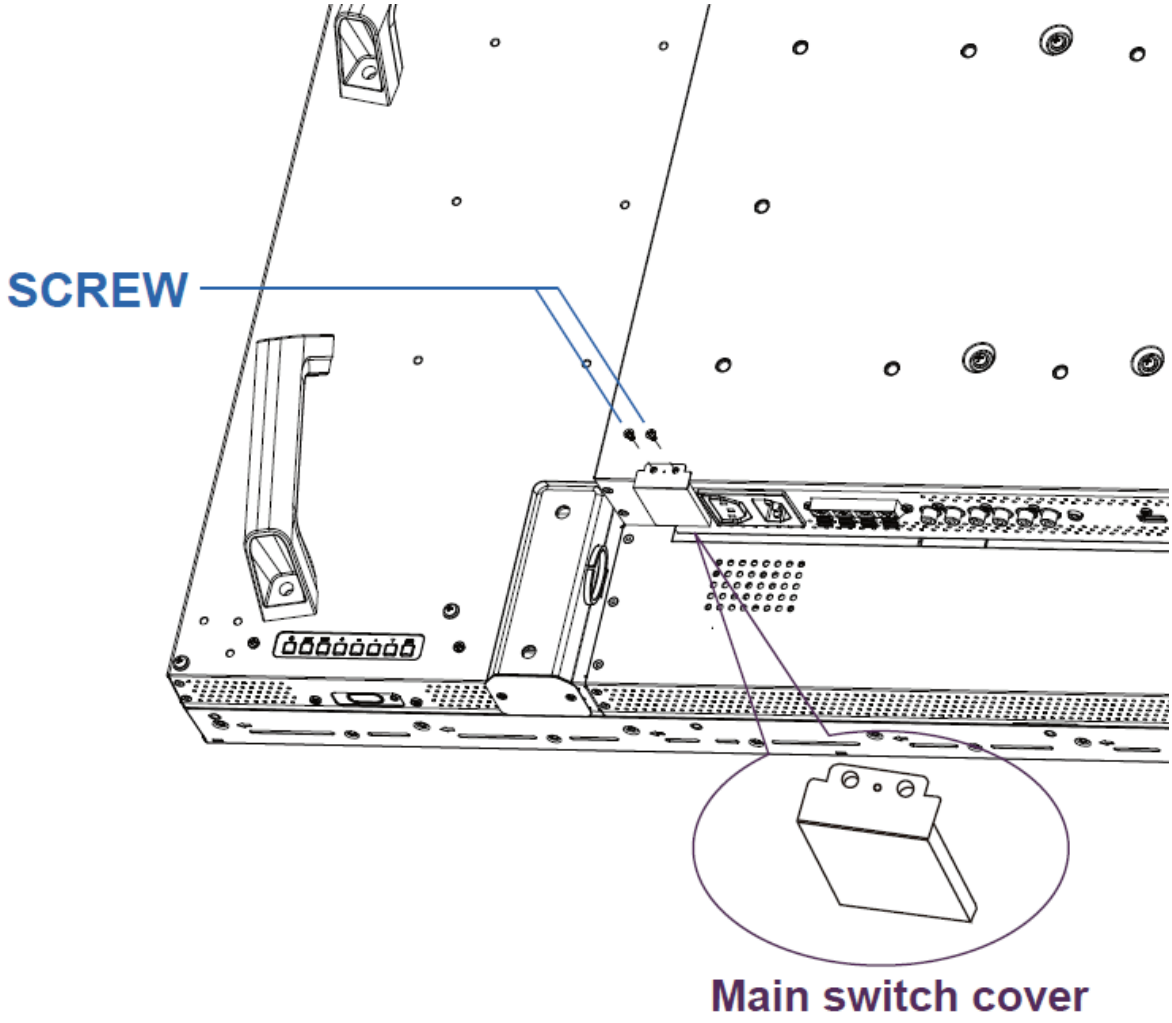
To reduce the risk of “image persistence”, please adjust the following items based on the application being used.
“POWER SAVE”, “SCREEN SAVER“, “DATE AND TIME”.

11. To prevent the main power switch from being changed

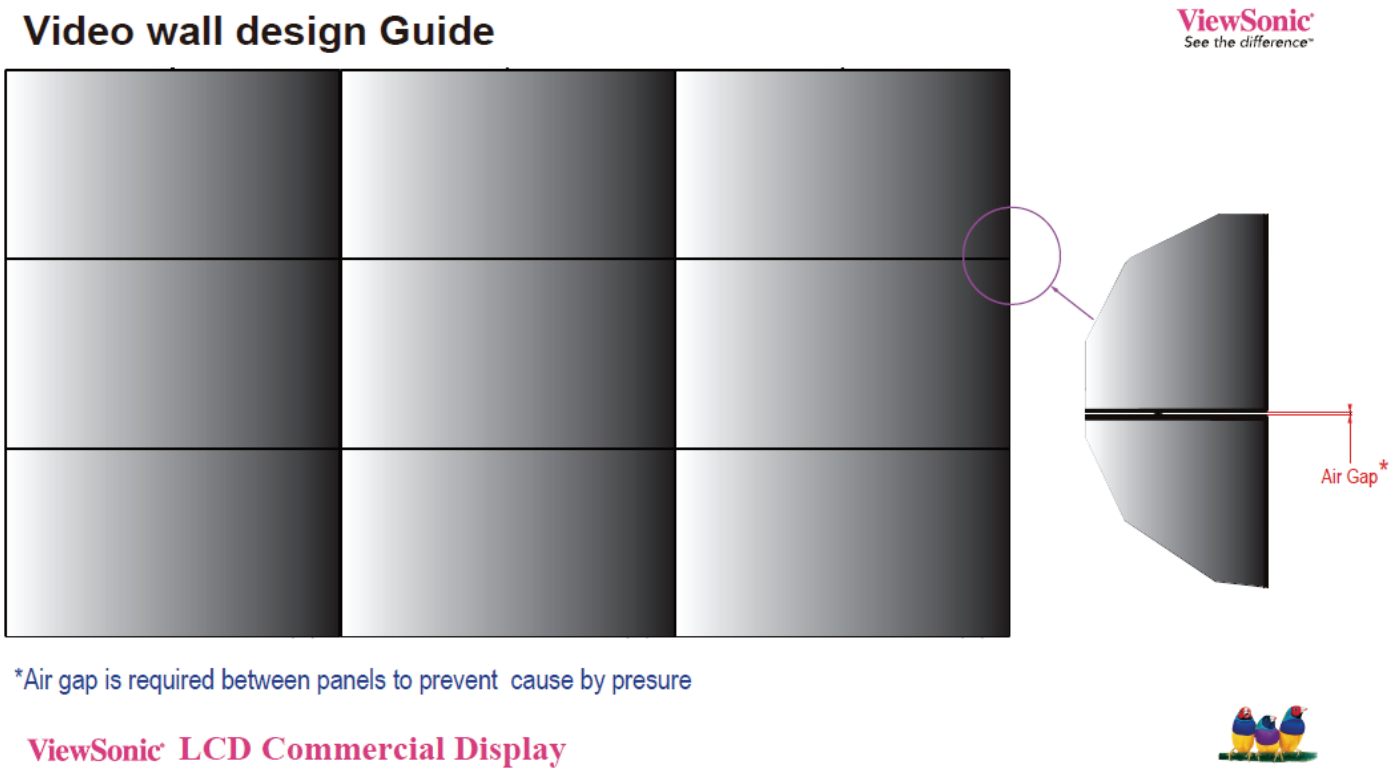
To prevent the possibility of main power switch being carelessly pushed, please attach the main switch cover (accessory) onto it.

NOTE:

With the main power switch cover in place, the main power switch can not be turned off. Remove main power switch cover in order to turn off the display.



Video wall design Guide


Video wall design Guide
ViewSonic
See the difference
Air Gap*
*Air gap is required between panels to prevent cause by presure
ViewSonic LCD Commercial Display

How to Mount and Attach Stand to the LCD Monitor

You can install the LCD monitor in one of the following two ways:

Method 1: Attach and remove the optional stands

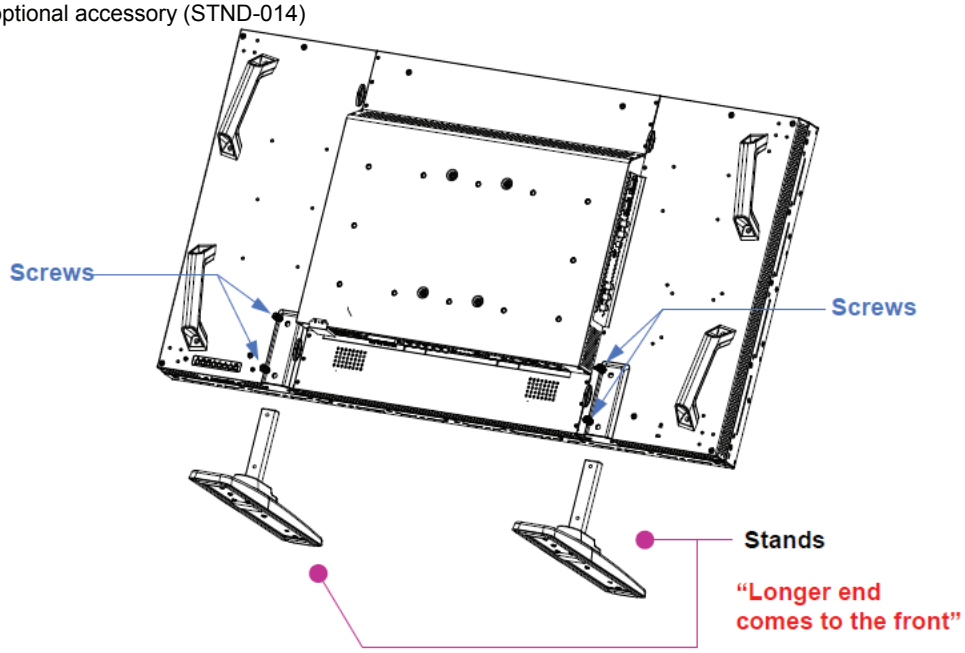
How to install stands

1. Please turn the monitor off.
2. After inserting stand in guide block, fasten the thumbscrews on both sides of the monitor.

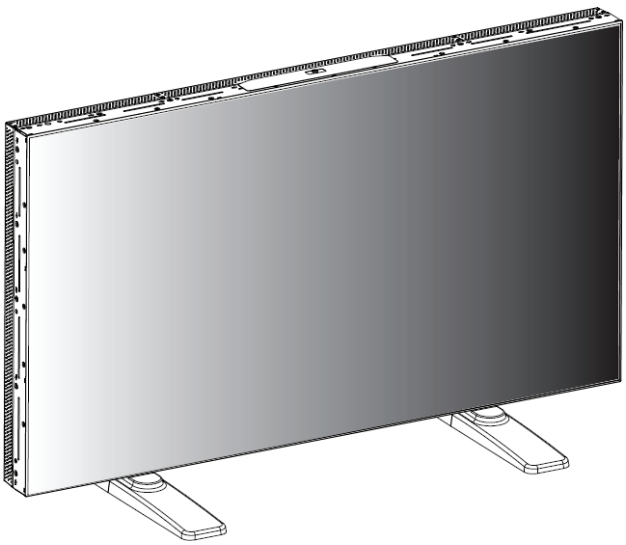
NOTE:

Install the table stand with the longer end of the stand directing to the front.

Stand is optional accessory (STND-014)



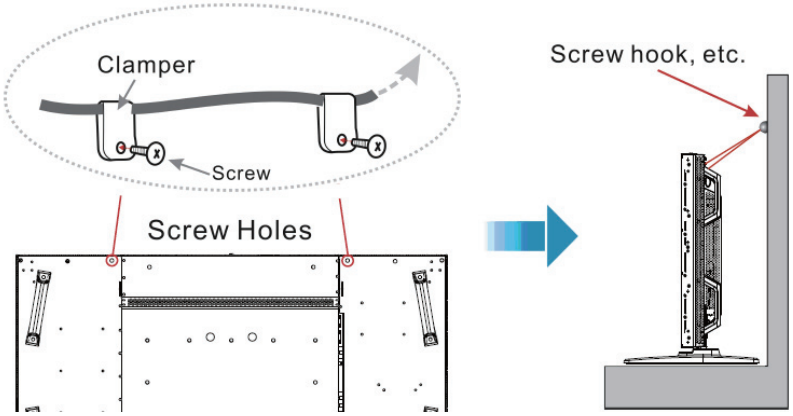
In the upright position



How to remove the stands

1. Spread the protective sheet on the flat surface.
2. Make the monitor lying on the protective sheet.
3. Remove screws using a screwdriver and place them in a safe place for reuse.

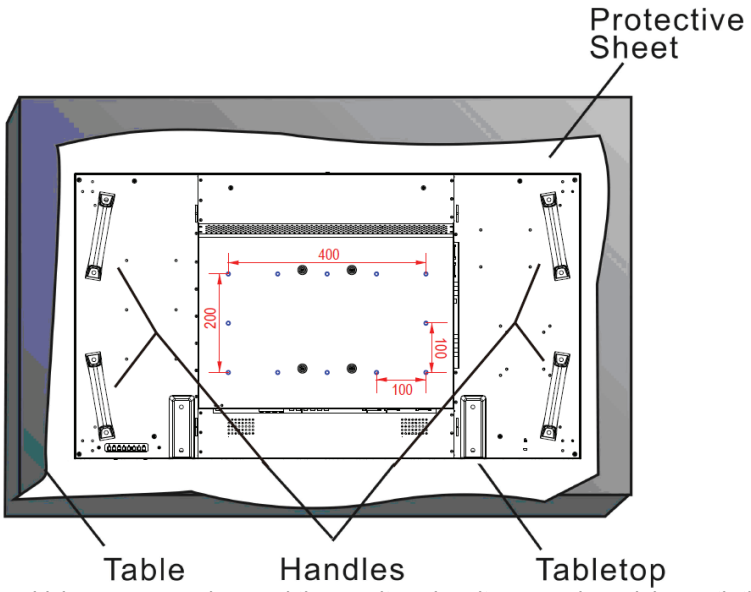
To avoid monitor from falling
Take measures to prevent the monitor from falling over in case of an earthquake or other disaster might occur to lessen the probability of injury and damage.
As shown in the figure below, secure the monitor to a solid wall or pillar using rope (commercially available) strong enough to bear the weight of the monitor(approx. 47.5 kg). Screw hooks (commercially available), of ring type rather than C-shaped screw hooks (with opening), are recommended.



Caution:
- Though the recommended prevention from falling is intended to lessen the probability of injury and damage, it doesn't assure its effectiveness against any kind of earthquake or disaster.
- Before moving the monitor, remove the rope that is securing the monitor.

Method II: Mount the monitor on the wall

Before mounting the monitor to the wall, make sure that the system has been power-off and you have obtain a standard wall-mounting kit (commercially available). Using mounting interface that comply with TÜV-GS and/or UL1678 standard in North America is recommended.

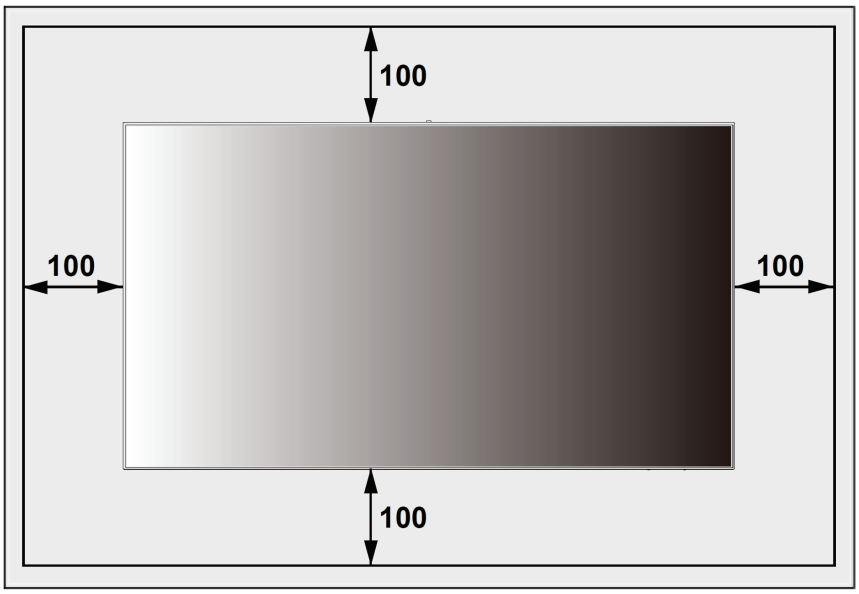


1. Lay a protective sheet on a table, which was wrapped around the monitor when it was packaged, beneath the surface as not to scratch the screen face.
2. This device cannot be installed without the correct and complete mounting accessories (not provided in the box). Make sure you have all related parts available for wall mounting.
3. Follow the instructions that come with the base mounting kit. Failure to follow correct mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation.
4. For the wall-mounting kit, use M6 mounting screws for 400x200 mm pattern (having a length 10 mm longer than the thickness of the mounting bracket) and tighten them securely. (Recommended torque: 470 - 635N•cm).

Caution:
For preventing the monitor from falling.
- Install the monitor with metal brackets for wall or ceiling installation (commercially available) on your own responsibility. For detailed procedures of installation, refer to the instructions of the metal brackets.
- To lessen the probability of injury and damage resulting from fall of the monitor in case of earthquake or other disaster, be sure to consult the bracket manufacturer for installation location.
- To lessen the risk of falling of the monitor, thread commercially available rope (having a load capacity at least 1960N (200kgf)) through the handles at the right and left of the monitor and secure the rope to the wall mount brackets or ceiling mount brackets.(Refer to the first paragraph of this page.)

Ventilation Requirements for enclosure locating

To allow heat to disperse, leave space between surrounding objects as shown in the diagram below.

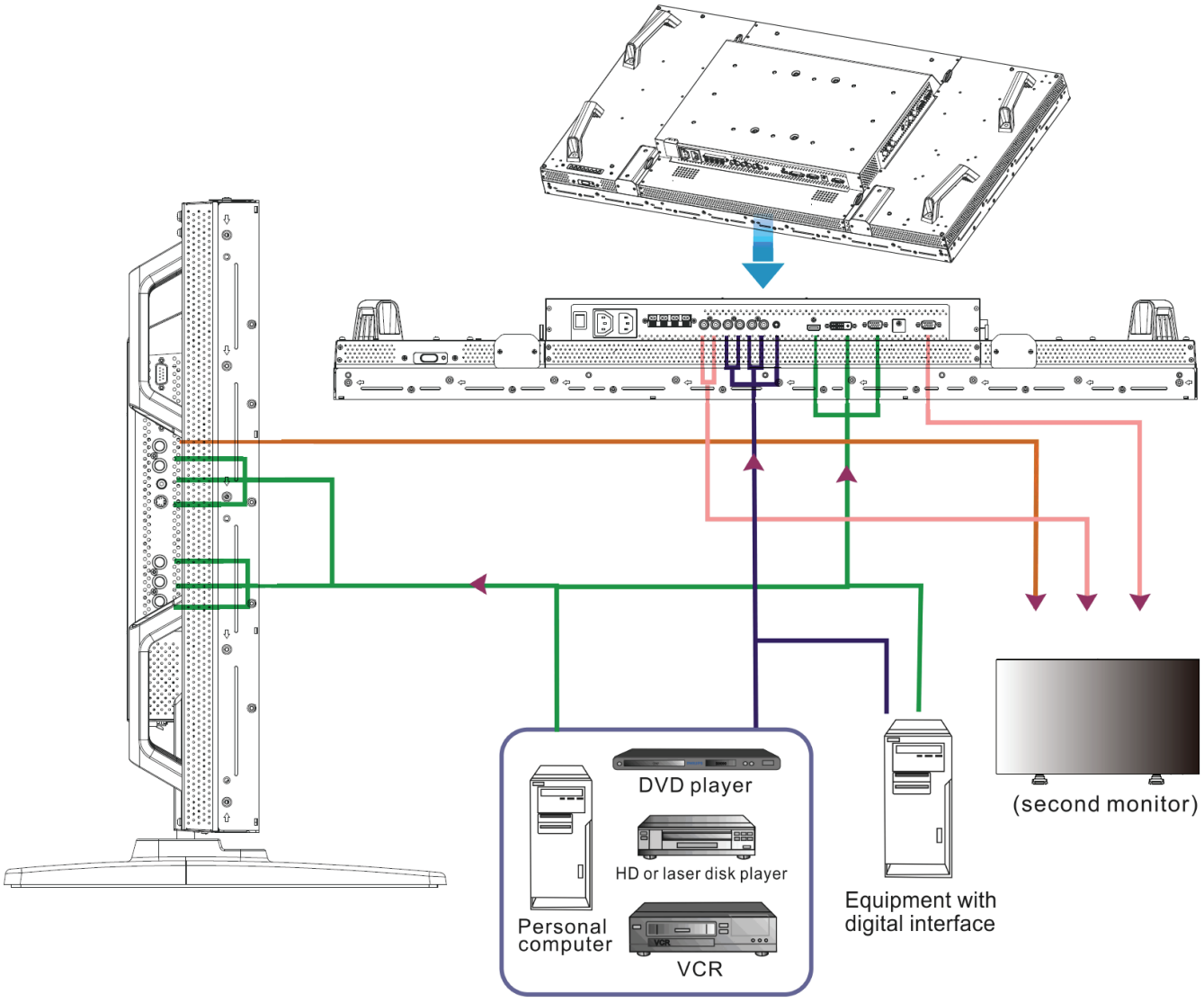


Connectivity

Before making connections:

* First turn off the power of all the attached equipments before make connections.
* Refer to the user manual included in each separate piece of equipment.

Connectivity Diagram

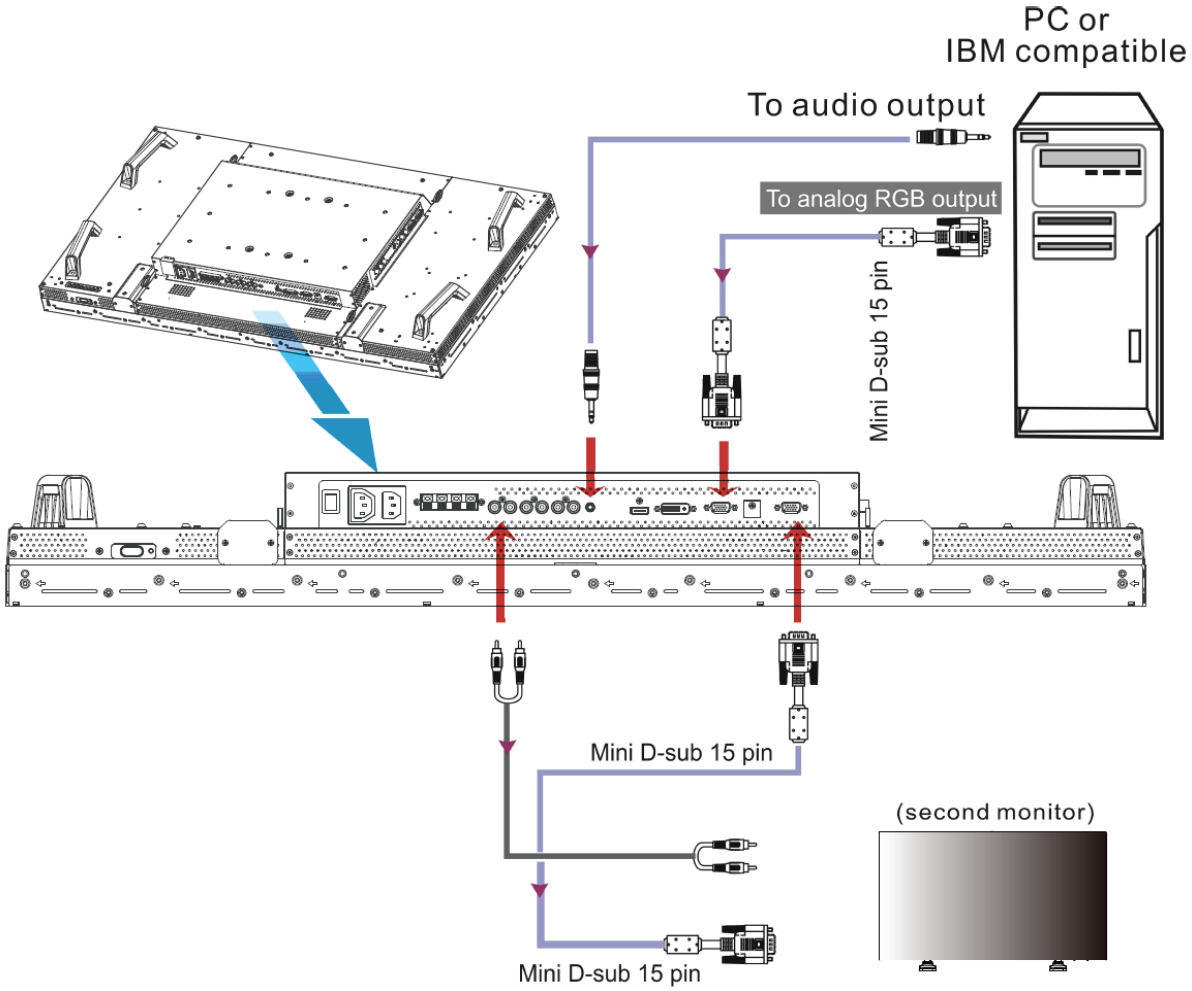


Connecting to a Personal Computer

As you finish the connection between the computer and the LCD monitor, you could play the contents in the computer and display them on the LCD monitor.

Connecting the LCD Monitor to a Personal Computer

- To achieve this, apply the supplied VGA signal cable (mini D-sub 15 pin to mini D-sub 15 pin) to make connection between a PC and the LCD monitor (VGA IN connector).
- When connecting more than one LCD monitors to a PC, apply another VGA signal cable (mini D-sub 15 pin to mini D-sub 15 pin; it's commercially available) to make connection between the LCD monitor(VGA OUT connector) and the other (VGA IN connector).
- The AUDIO IN 1, 2, 3 or HDMI can be connected for audio input. After choosing one of the AUDIO IN connectors, you might need to select AUDIO 1, 2, 3 or HDMI using the AUDIO SOURCE button on the remote control.
- When connecting more than one LCD monitors to a PC, apply RCA cable to make connection between the LCD monitor(AUDIO OUT connector) and the other (AUDIO IN 1, 2, 3). HDMI source is not suitable for this case.

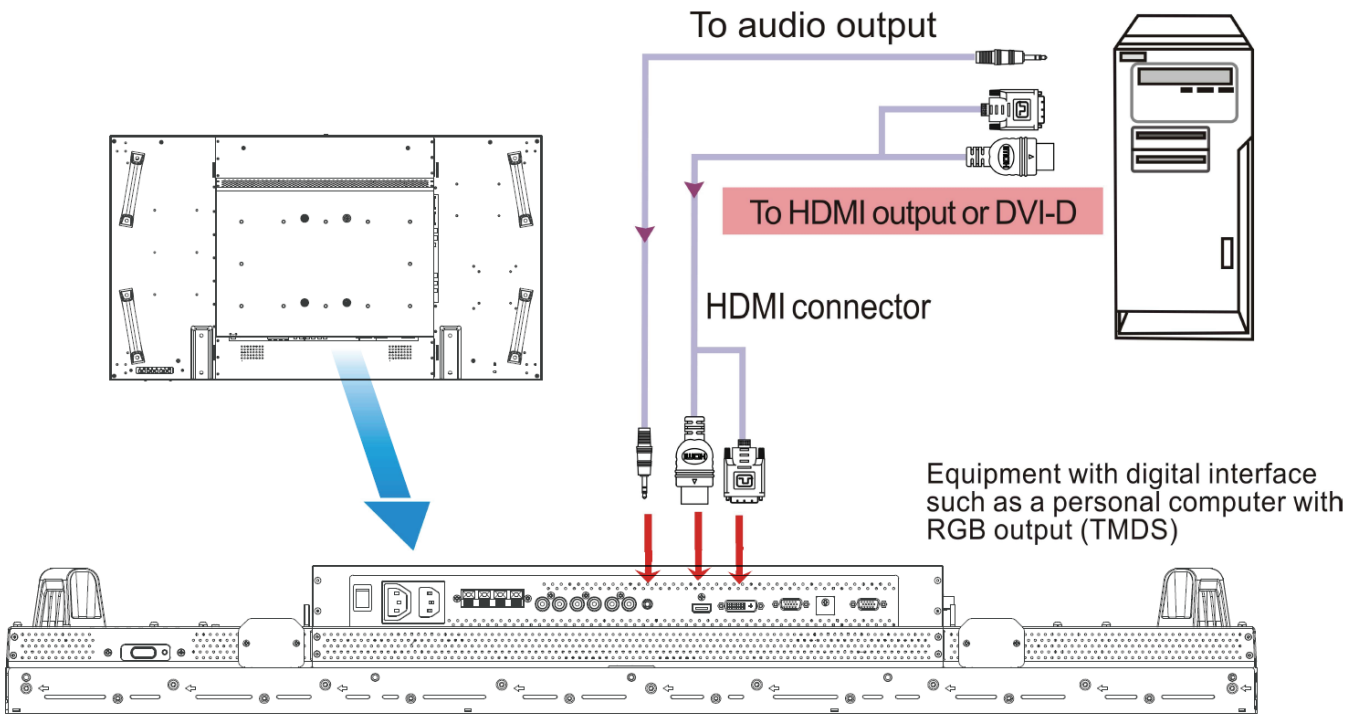


Connecting to a Digital Interface Equipment

Connections can be made between the LCD monitor and other digital equipment that is equipped with a digital interface compliant with the DVI (Digital Visual Interface) standard.

Connect the LCD Monitor to a Computer with a Digital Output

- The HDMI , DVI-D IN connector accepts a HDMI cable.
- HDMI and DVI-D can receive HDMI video signals from either a HDMI output of for instance a DVD player or from a DVI-D output of a PC.
- To ensure the display quality, use a cable with a quality prescribed by DVI standards.
- The AUDIO IN 1, 2, 3 or HDMI connector can be chosen to receive an audio source. Select AUDIO 1, 2, 3 or HDMI from the AUDIO SOURCE button on the remote control. HDMI(for audio) is only selectable only when HDMI or DVI-D (for video) is selected.
- Note that the signal of a HDMI / DVI-D connector cannot be output to the VGA OUT connector.


To audio output
To HDMI output or DVI-D
HDMI connector
Equipment with digital interface such as a personal computer with RGB output (TMDS)

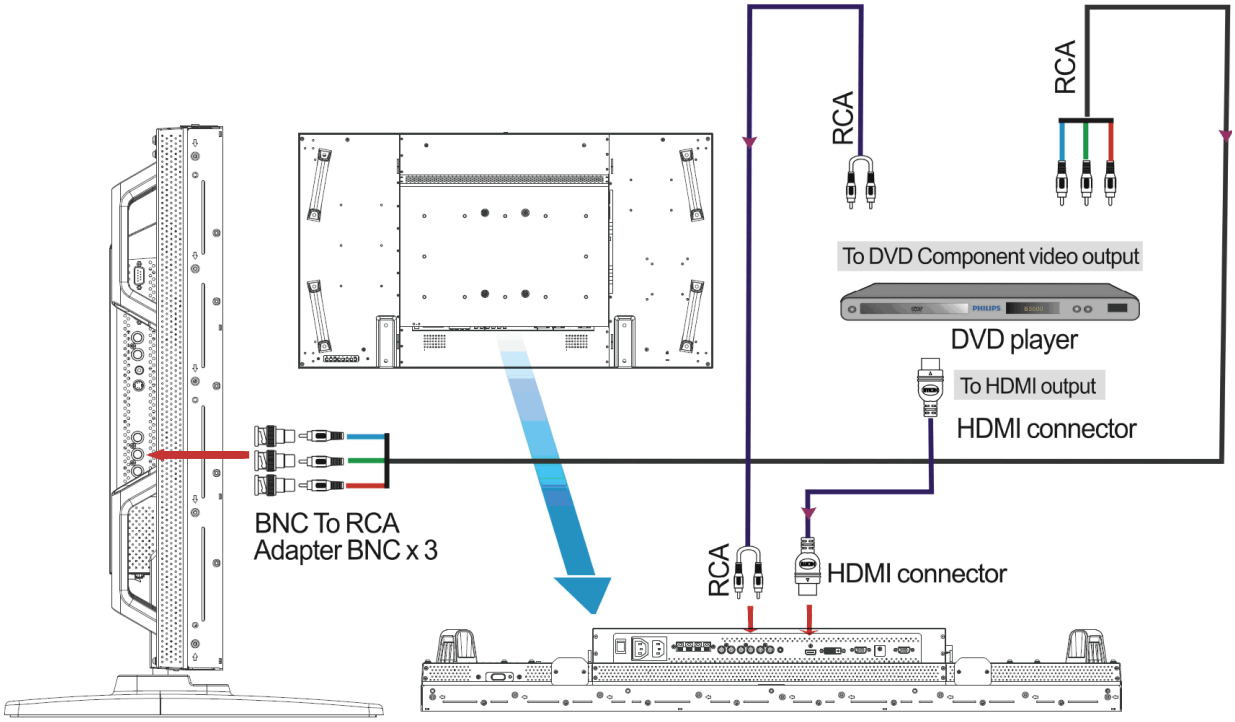
Connecting to a DVD Player

As you finish the connection between the DVD player and the LCD monitor, you could display the contents from the played DVD on the LCD monitor. You might like to refer to your DVD player's manual for further information.

Connect the LCD Monitor to a DVD Player

- To achieve this, apply a 3x components cable (Y, Pb, Pr) with BNC connectors at one end and RCA connectors at the other end between DVD player and display. In case you can only obtain RCA connectors on both ends you can use the in box available BNC-to-RCA converters.

  DVD player(Y, Pb, Pr Out) and LCD monitor (COMPONENT). You might need BNC-to-RCA adapters(including in the accessories) to convert the BNC connectors to RCA connectors if you are using the separated signaling(Y, Pb, Pr) RCA cable.
- If your DVD player supports HDMI signaling, apply a HDMI to HDMI cable for the connection.
- The AUDIO IN 2 , 3 (both of RCA connector type) can be used for audio input. Select [AUDIO 1] (for 3.5φ phone jack), [AUDIO 2], [AUDIO 3] Or [HDMI] from the AUDIO SOURCE button on the remote control. HDMI (for audio) is selectable only when HDMI or DVI-D (for video) is selected.

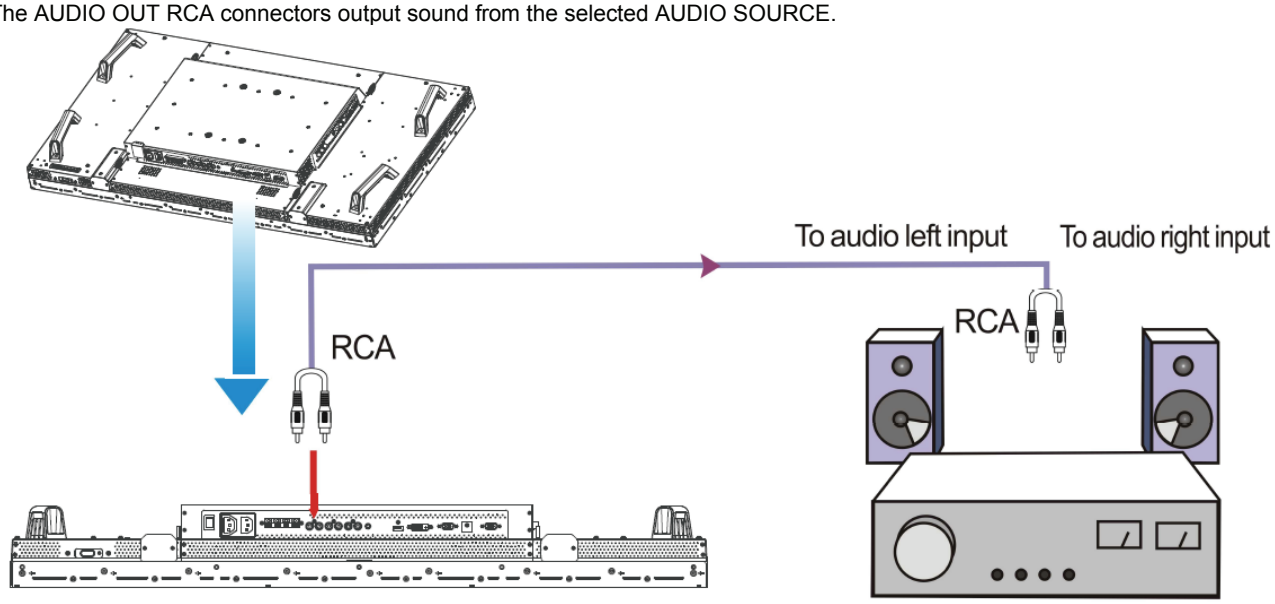


Connecting to a Stereo Amplifier

You can connect your stereo amplifier to your LCD monitor. Refer to your amplifier's manual for further information.

Connect the LCD Monitor to a Stereo Amplifier

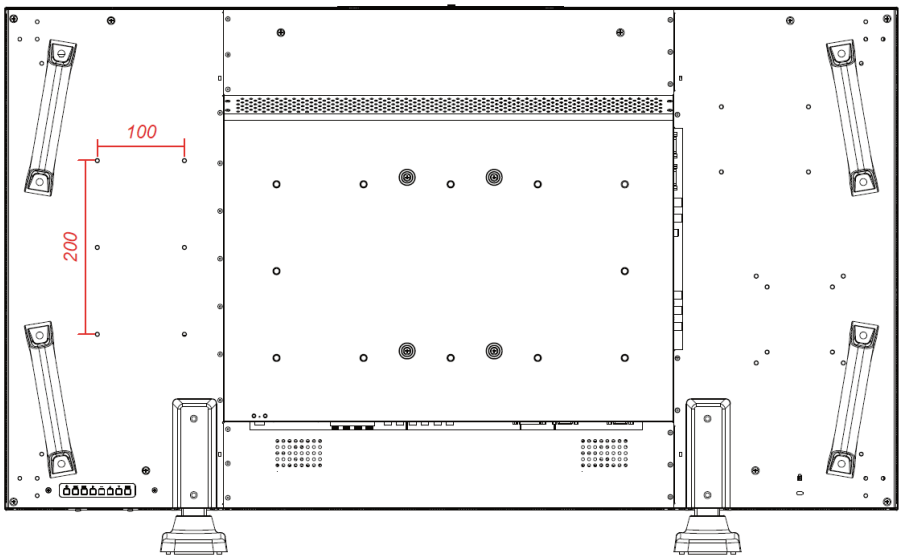
- Turn on the LCD monitor and the amplifier only after all connections have been finished.
- Apply 2 RCA cables (audio left and right) to make connection between the amplifier (audio in) and the LCD monitor (audio out).
- Do not reverse the audio left and right jacks.
- For the preferred audio signal, select [AUIDO1], [AUDIO2], [AUDIO3] or [HDMI] from the AUDIO SOURCE button on the remote control. HDMI(for audio) is selectable only when HDMI or DVI-D (for video) is selected.
- The AUDIO OUT RCA connectors output sound from the selected AUDIO SOURCE.



Connecting to a display mounted PC

This monitor has an area in the backcover to mount a small form fact PC or set-top box.

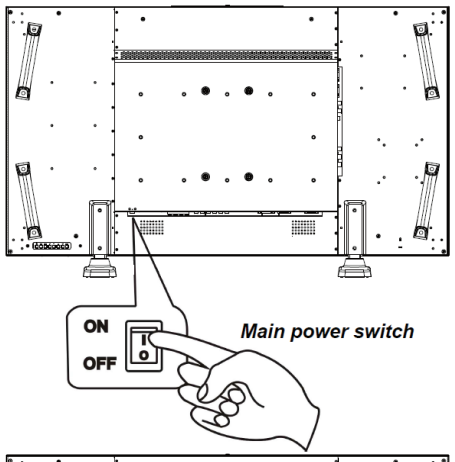
You can connect your mounted PC to your LCD monitor. Use M4 mounting screws for 100x200 mm to fix your mount PC.



Basic Operation

Power ON and OFF Modes

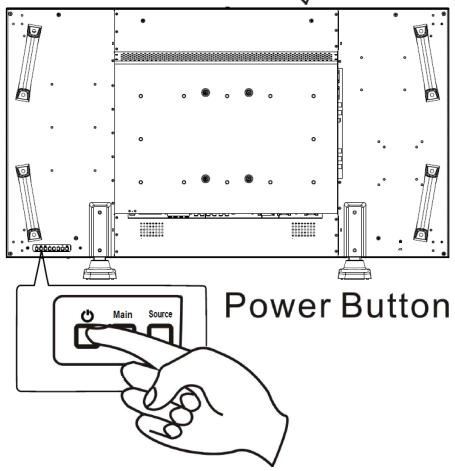
The LCD monitor power indicator will turn green while powered on and will turn red while powered off. The monitor can be powered on or off using the following three options:



1. Pressing the Main Power Switch.

NOTE:

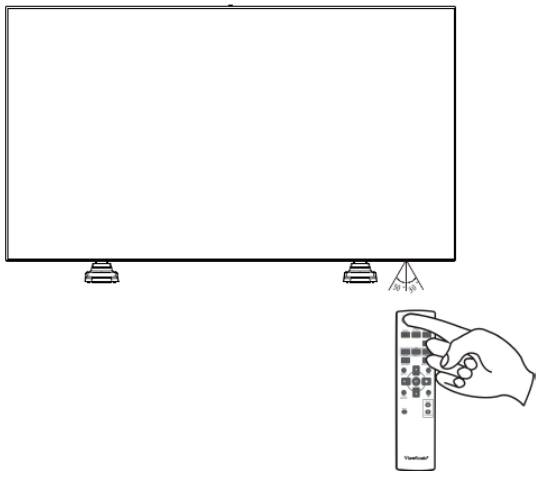
When the Main Power Switch is used to power off the LCD monitor, the remote control, the power button and the indicator will not work. Make sure to turn the Main Power Switch on before using the other two options.



2. Pressing the power button.

NOTE:

Before pressing the power button, be sure to turn on the Main Power button on the LCD monitor.



3. Using the remote control.

NOTE:

Before operating the remote control, be sure to turn on the Main Power Switch on the LCD monitor.

Power Indicator

	Status
Power ON	Green
Power Standby	Red
Power OFF	LED Off
Diagnosis (Detecting failure)	Red Blinking * See troubleshooting

Using Power Management

Please turn off the LCD monitor when it will not be used for long time. This could potentially increase the life and decrease the power consumption of the LCD monitor.
Standby mode: Push the power button on the remote control or on the monitor to enter the standby mode.
Power Off: Push the Main Power Switch to enter the power off mode.

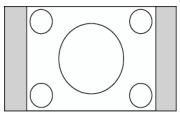
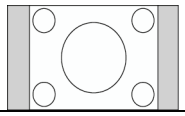
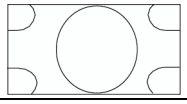
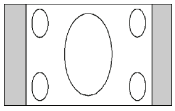
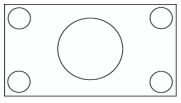
Display Signal of Video Source Setting to [VIDEO]

Use the SOURCE button on the front panel or the VIDEO SOURCE button on the remote control to set video source to [VIDEO].
Use the COLOR SYSTEM OSD menu to select [AUTO], [NTSC], [PAL], [SECAM], [PAL60], [4.43NTSC], according to your video format.

Picture Size

HDMI, DVI-D, VGA: FULL → NORMAL → CUSTOM → REAL → FULL

COMPONENT, VIDEO: FULL → NORMAL → DYNAMIC → CUSTOM → REAL → FULL

Signal Type	NORMAL SIZE	Recommended Size
4:3		NORMAL 
		DYNAMIC 
Squeeze		FULL 

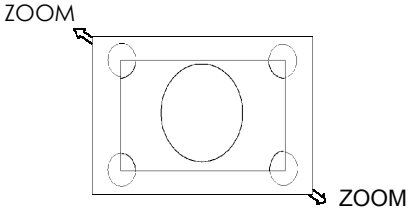
NORMAL: Display with the input signal aspect ratio from PC signal, or display in 4:3 aspect ratio at COMPONENT or VIDEO signal.

FULL: Display in the entire screen.

DYNAMIC: Expand 4:3 pictures to the entire screen with non-linearity. (Some round image might be cut by expansion.)

CUSTOM (ZOOM): Images can be expanded beyond the active display area. The image which is outside of the active display area would not be shown.

REAL: Image will be displayed for one by one pixel.



Smart Picture Mode

HDMI, VGA
COMPONENT, VIDEO

STANDARD → CINEMA → VIVID → SOFT → STANDARD

Audio Source Switching

You can select the audio source using the AUDIO SOURCE button on the remote control.

HDMI

HDMI → AUDIO1 → AUDIO2 → AUDIO3 → HDMI

Control Lock Mode

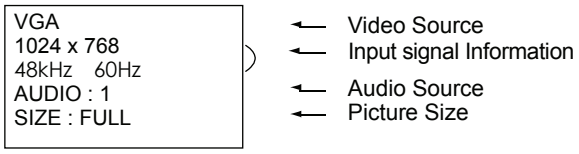
This function disables the operation o buttons so that the adjustments you make are not active when they are pressed.

To disable the buttons, press and hold down the ▲ and ▼ buttons together for at least 3 seconds.

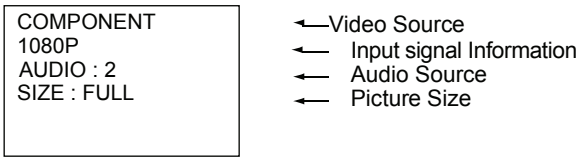
To enable the buttons, press and hold down the ▲ and ▼ buttons together for at least 3 seconds again.

OSD Information

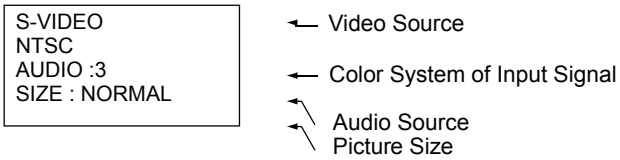
HDMI, VGA



COMPONENT



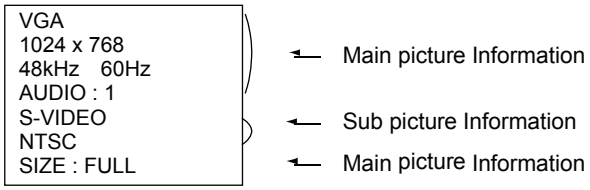
S-VIDEO, VIDEO



PIP or POP

Main:VGA

Sub:S-VIDEO



OSD (On-Screen-Display) Controls

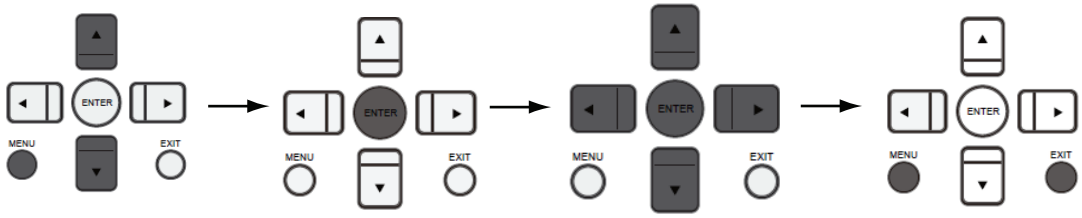
Remote Control

Press MENU button to open Main menu. Press UP or DOWN button to select sub-menu.

Press ENTER button to enable setting.

Press UP or DOWN, and LEFT or RIGHT button to select function, or adjust the setting. Press ENTER button to enable the setting.

Press MENU or EXIT button to exit.



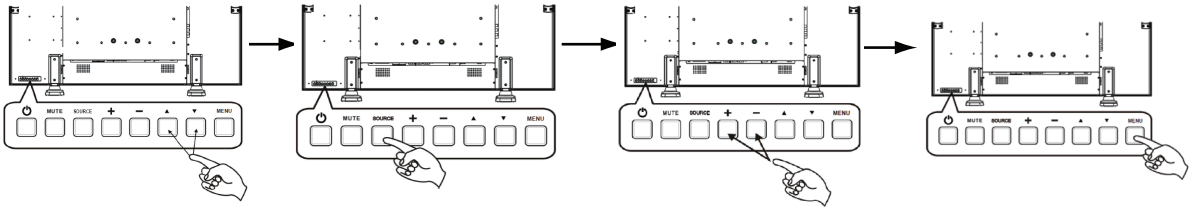
Control Panel

Press EXIT button to open Main menu. Press UP or DOWN button to select.

Press SOURCE button to enable the setting.

Press UP or DOWN, and + or - button to select function, or adjust the setting. Press ENTER button to enable the setting.

Press EXIT button to exit.

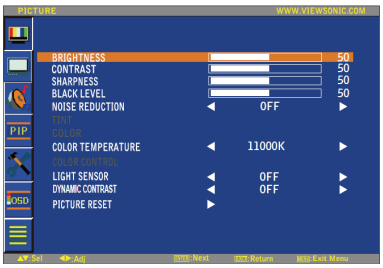


UP or DOWN button | SOURCE button | "+" "-" button | EXIT button

OSD screen

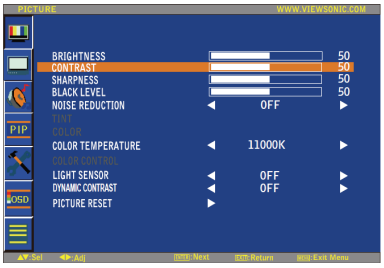
Main-Menu

PICTURE



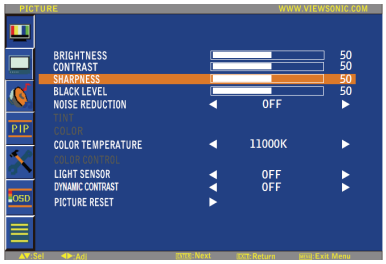
BRIGHTNESS

Adjusts the overall image and background screen brightness.
Press ► button to increase brightness.
Press ◄ button to decrease brightness.



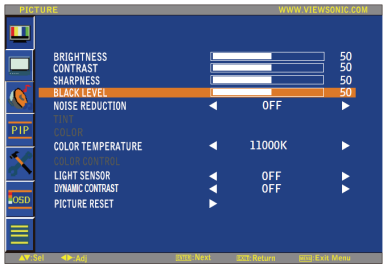
CONTRAST

Adjusts the image brightness for the input signal.
Press ► button to increase contrast.
Press ◄ button to decrease contrast.



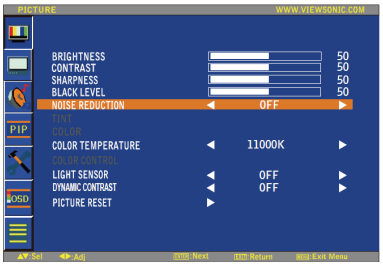
SHARPNESS

This function is digitally capable to keep crisp images at any timing.
It is adjustable to get a distinct image or a soft one as you prefer and set independently for each picture mode.
Press ► button to increase sharpness.
Press ◄ button to decrease sharpness.



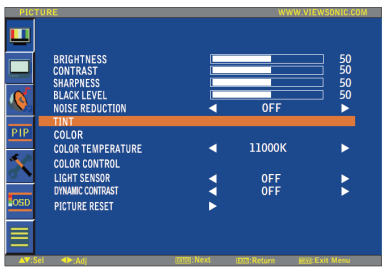
BLACK LEVEL

Adjusts the image brightness for the background.
Press ► button to increase black level.
Press ◄ button to decrease black level.



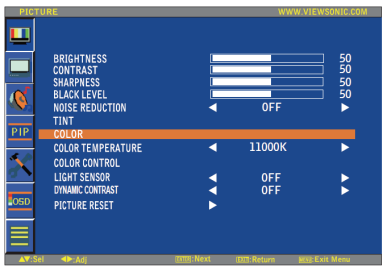
NOISE REDUCTION

Adjusts the noise reduction level.
Press ► button to increase reduction level.
Press ◄ button to decrease reduction level.



TINT* : INPUT HDMI , (HDMI INPUT MODE-HD), COMPONENT, S-VIDEO, VIDEO only

Adjusts the tint of the screen.
Press ► button the flesh tone color becomes greenish.
Press ◄ button the flesh tone color becomes purplish.



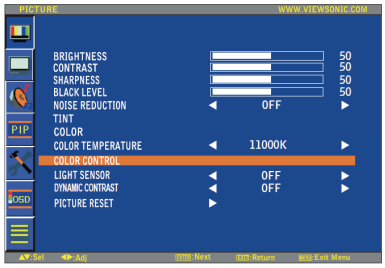
COLOR

* : INPUT HDMI , DVI-D(INPUT MODE-HD), COMPONENT, S-VIDEO, VIDEO only

Adjusts the color of the screen.
Press ► button to increase color depth.
Press ◄ button to decrease color depth.

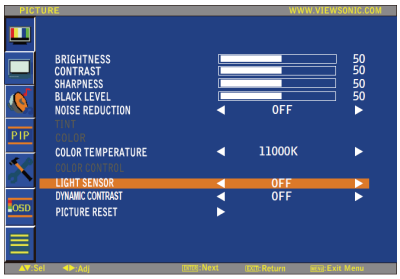
COLOR TEMPERATURE

Is used to adjust the color temperature.
The image becomes reddish as the color temperature decreases, and becomes bluish as the color temperature increases.



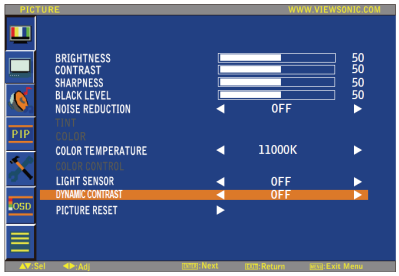
COLOR CONTROL

The color levels of red, green, and blue are adjusted by the color bars.
R: Red, G: Green, B: Blue



LIGHT SENSOR

Select “ON” to enable the ambient light sensor. The image brightness will be auto adjusted when ambient light changed.



DYNAMIC CONTRAST

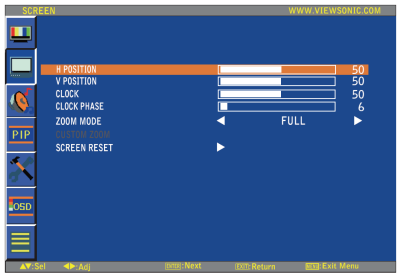
Select “ON” to enable the dynamic conctrast mode. Can enhancement the image of high contrast ratio.

PICTURE RESET

Selecting Picture reset allows you to reset all OSD settings about PICTURE setting.
Select “Yes” and press “ENTER” button to restore to factory preset data.
Press “EXIT” button to cancel and then return to the previous menu.

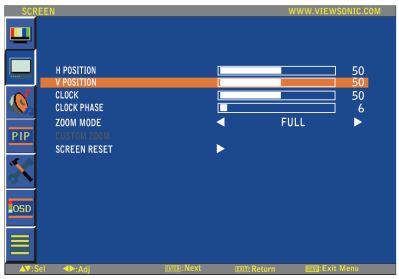
Main-Menu

SCREEN



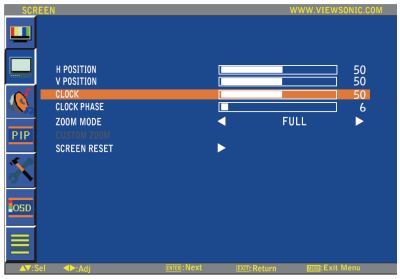
H POSITION

Controls Horizontal Image position within the display area of the LCD.
Press ► button to move screen to right.
Press ◄ button to move screen to left.



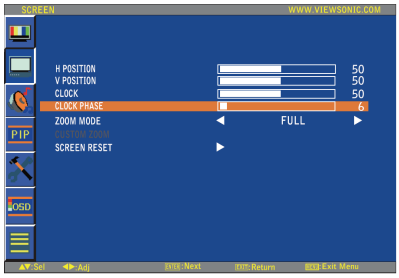
V POSITION

Controls Vertical Image position within the display area of the LCD.
Press ► button to move screen to UP.
Press ◄ button to move screen to DOWN.



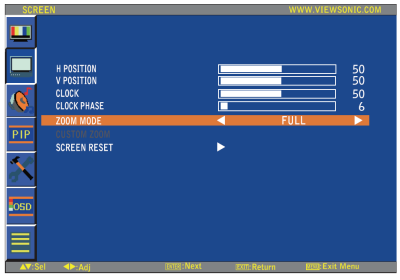
CLOCK * : INPUT VGA only

Press ► button to expand the width of the image on the screen the right.
Press ◄ button to narrow the width of the image on the screen the left.



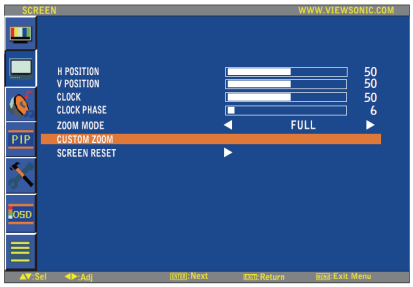
CLOCK PHASE * : INPUT VGA only

Improves focus, clarity and image stability by increasing or decreasing this setting.



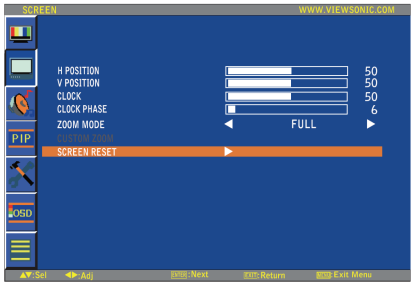
ZOOM MODE

You can select “FULL”, “NORMAL” and “CUSTOM” and “REAL”. (INPUT HDMI,DVI-D,VGA only)
You can also select “FULL”,“NORMAL” “DYNAMIC” and “CUSTOM” and “REAL”. (INPUT COMPONENT, S-VIDEO, VIDEO only)
Selecting “DYNAMIC” will make the screen display panoramic with the expansion of the middle and outside of the screen changed. (The upper and the bottom of the image will be cut by expansion.)
Dynamic image is the same as FULL size image when HDTV signal is input.
Selecting “REAL” image will be displayed 1 by 1 pixel.



CUSTOM ZOOM

"CUSTOM ZOOM" will be selected when you select "CUSTOM" on the screen "ZOOM" mode.
ZOOM: expands the horizontal and the vertical size simultaneously.
HZOOM: expands the horizontal size only.
VZOOM: expands the vertical size only.
H POSITION: moves to the right with + button. moves to the left with – button.
V POSITION: moves up with + button. moves down with – button.

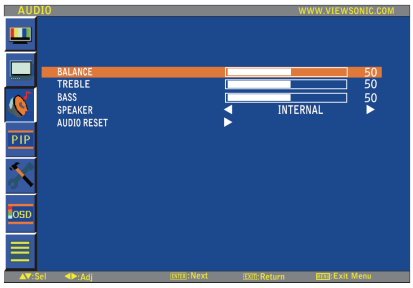


SCREEN RESET

Selecting Screen reset allows you to reset all OSD settings from PICTURE setting.
Select "Yes" and press "ENTER" button to restore the factory preset data.
Press "EXIT" button to cancel and then return to the previous menu.

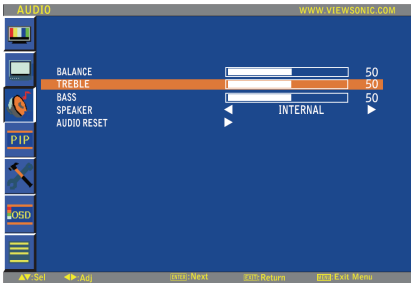
Main-Menu

AUDIO



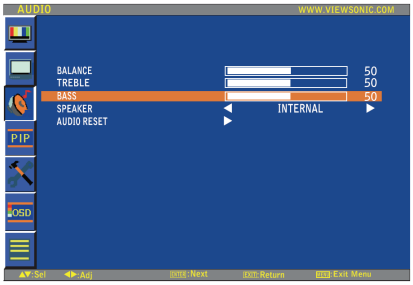
BALANCE

Adjusts the balance of L/R volume.
Press ► button to move the stereo sound image to right.
Sound of the left side will be small.
Press ◄ button to move the stereo sound image to left.



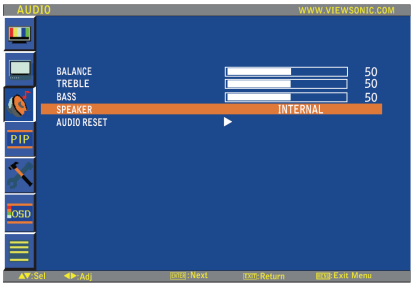
TREBLE

This feature helps you to accentuate or reduce the high frequency sound.
Press ► button to increase TREBLE sound.
Press ◄ button to decrease TREBLE sound.



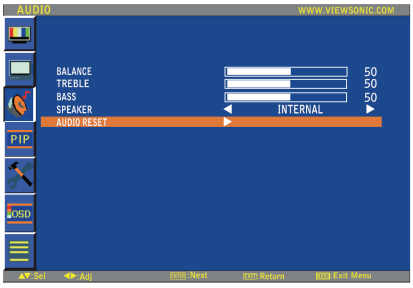
BASS

This feature helps you to accentuate or reduce the low frequency sound.
Press ► button to increase BASS sound.
Press ◄ button to decrease BASS sound.



SPEAKER

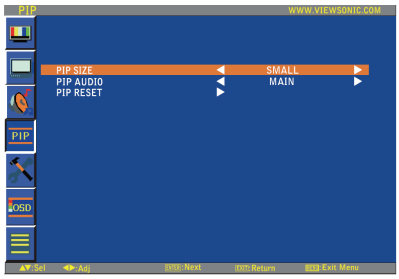
This feature helps you to cut the internal or the external loudspeaker.
Press ► or ◄ button to exchanges the internal and the external loudspeaker.



AUDIO RESET

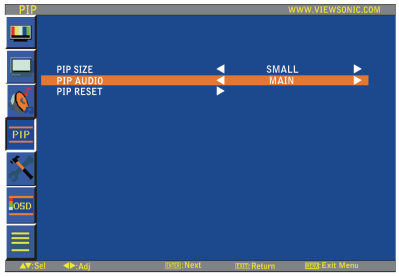
Selecting Audio reset allows you to reset all OSD settings from AUDIO setting.
Select “YES” and press “ENTER” button to restore the factory preset.
Press “EXIT” button to cancel and then return to the previous menu.

PIP (PICTURE IN PICTURE)



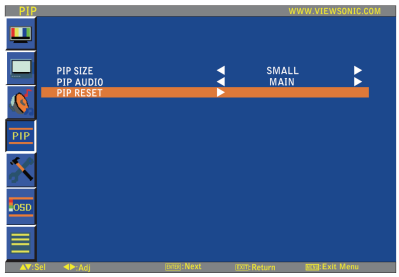
PIP SIZE

Selecting the size of picture inserted at the “Picture-in-Picture” (PIP) mode.
“Large”, “Middle” and “Small” are available.



PIP AUDIO

Selecting the sound source in PIP mode.
When selecting “MAIN AUDIO”, you will get the sound for the main picture and when selecting “PIP AUDIO”, you will get the sound for the picture instead.

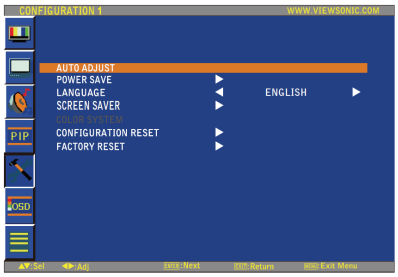


PIP RESET

Selecting PIP Reset allows you to reset all OSD settings from PIP setting.
Select “Yes” and press “ENTER” button to restore the factory preset data.
Press “EXIT” button to cancel and then return to the previous menu.

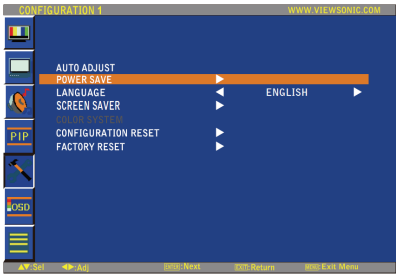
Main-Menu

CONFIGURATION 1



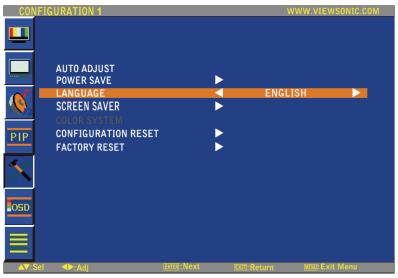
AUTO ADJUST * : INPUT VGA only

Press "ENTER" button to automatically adjust screen size, horizontal position, vertical position, clock,
clock phase, white level and black level.
Press " EXIT " button to cancel execution AUTO ADJUST and then will return to the previous menu.



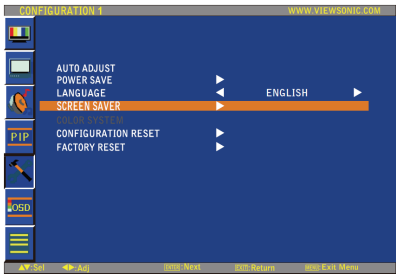
POWER SAVE

Selecting RGB "ON", the monitor will go to power management mode when HDMI, DVI-D,VGA, sync is lost.
Selecting VIDEO "ON", the monitor will go to power management mode after about 10 minutes delay from when COMPONENT and VIDEO input signal is lost.



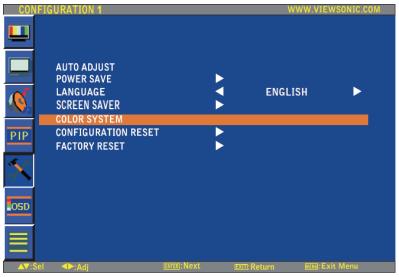
LANGUAGE

OSD control menus are available in nine languages.
(English, German, French, Italian, Spanish, Polish, Turkish, Russian, Simple Chinese)



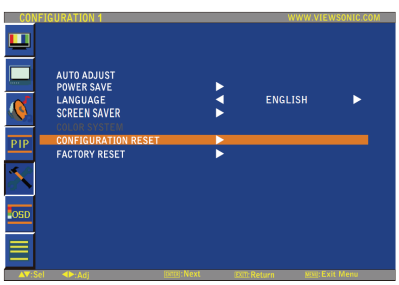
SCREEN SAVER

Select "SCREEN SAVER" functions to reduce the risk of the "image persistence".
COOLING FAN: The cooling fan will be auto-turned on and off according to temperature of monitor when selected “AUTO”. The cooling fan will be turned on always when selected “ON”.
BRIGHTNESS: The brightness is decreased when selected " High, Middel and Low ".
PIXEL MOTION: Image is slightly expanded and moves 4 directions (UP, DOWN, RIGHT, LEFT) periodically
(Need setting the time for movement).
Movement area is approximately +/- 5pixel from original position;
Please locate the important information such as text within 90% area of screen image.



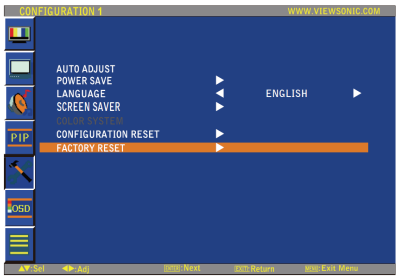
COLOR SYSTEM * : INPUT S-VIDEO, AV only

Selecting the Color System depends on your input video format.
AUTO: NTSC, PAL, SECAM, PAL60 or 4.43 NTSC is automatically selected.
NTSC: Specific selection of NTSC.
PAL: Specific selection of PAL.
SECAM: Specific selection of SECAM.
PAL-60: Specific selection of PAL60.
4.43NTSC: Specific selection of 4.43 NTSC.



CONFIGURATION RESET

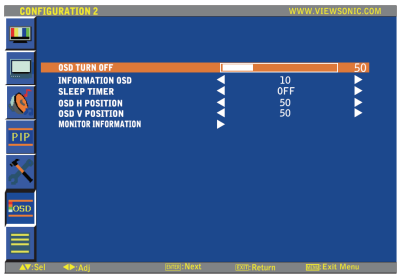
Selecting the CONFIGURATION RESET allows you to reset all configuration settings.
Select "Yes" and press "ENTER" button to restore the factory preset data.
Press " EXIT " button to cancel and return the previous menu.



FACTORY RESET

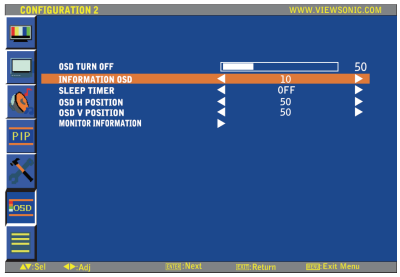
Selecting "YES" allows you to reset PICTURE, SCREEN, AUDIO, CONFIGURATION1,2 and ADVANCED OPTION will be back to factory settings (except LANGUAGE, DATE AND TIME and SCHEDULE).
Select "YES" and press "ENTER" button to restore the factory preset data. Press " EXIT " button to cancel and return the previous menu.

CONFIGURATION 2



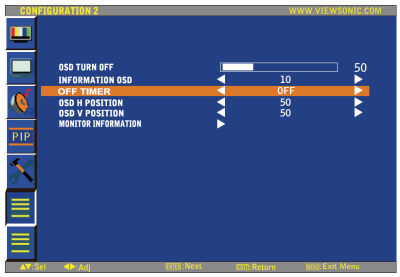
OSD TURN OFF

The OSD control menu will stay on as long as it is used. In the OSD Turn Off submenu, you can select how long the monitor waits after the last touch of a button to shut off the OSD control menu. The preset choices are 5 -120 seconds.



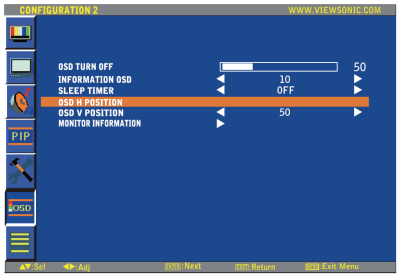
INFORMATION OSD

Selects the information OSD to be displayed or not.
The information OSD will be displayed when the input signal is changed or a source change or warning message like no-signal or out-of range.
A time between 1 to 10 seconds is available.



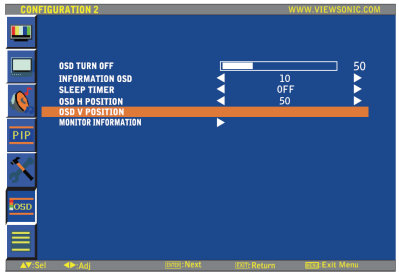
OFF TIMER

In the OFF TIMER menu, you can preset the monitor to automatically power down.
A time between 1 to 24 hours is available.
When the OFF TIMER is set, the SCHEDULE settings will be ignored.



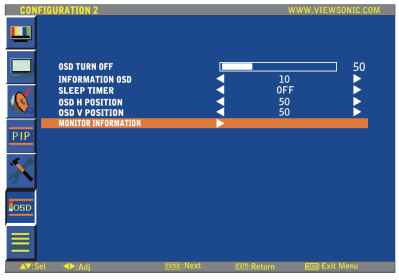
OSD H POSITION

Adjusts the horizontal position of the OSD menu.



OSD V POSITION

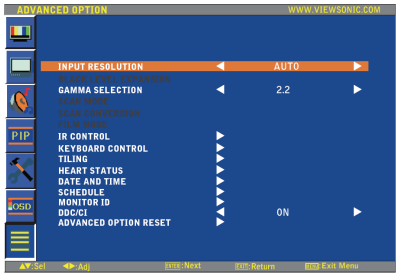
Adjusts the vertical position of the OSD menu.



MONITOR INFORMATION

Indicates the model and serial number of your monitor.

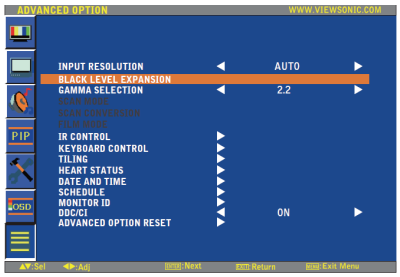
ADVANCED OPTION



INPUT RESOLUTION

* : INPUT VGA only

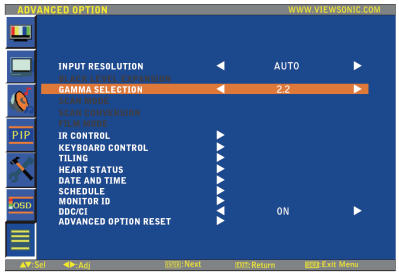
This feature makes the display controlling the source in order to match display capabilities by choice or automatically. You can select one of the following timings:
(1)1024x768, 1280x768, 1360x768 and 1366x768.
(2) 640x480, 720x480 and 852x480
(3) 800x600, 1064x600 and 720x576
(4) 1400x1050 and 1864x1050
(5) 720x400 and 640x400
AUTO: Determines the resolution automatically.
The setting you select becomes effective when POWER is turned OFF and ON again.



BLACK LEVEL EXPANSION

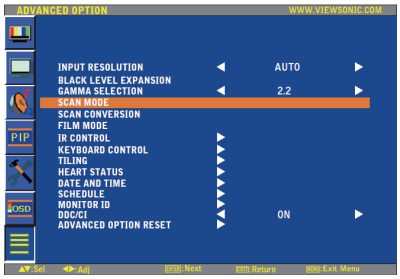
* : INPUT HDMI, DVI-D(MODE-HD), S-VIDEO, VIDEO only

Selects a level of black expansion from “OFF”,”LOW”, “MIDDLE” and “HIGH”.
In case of go under the black cut-off level, please adjust the “Black level” in moderation on OSD menu.



GAMMA SELECTION

Selects a display gamma. It refers to the brightness performance curve of signal input.
2.2
2.4
S gamma
Native



SCAN MODE

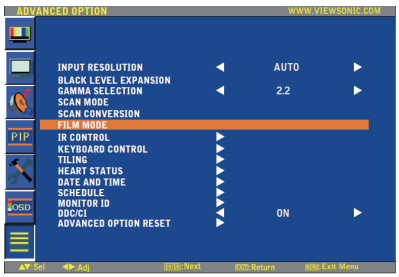
* : INPUT HDMI, DVI-D(MODE-HD), S-VIDEO, VIDEO only

Changes the display area of the image.
OVERSCAN: Set to display area about 95%
UNDERSCAN: Set to display area about 100%

SCAN CONVERSION

* : INPUT HDMI, DVI-D(MODE-HD), S-VIDEO, VIDEO only

Selects IP (Interlace to Progressive) converter function.
PROGRESSIVE: Enable the IP function, to convert interlace signal to progressive. Normally use this setting.
INTERLACE*: Disable the IP function.
*NOTE: This mode is better suited for motion pictures, but it increases chance of image retention.

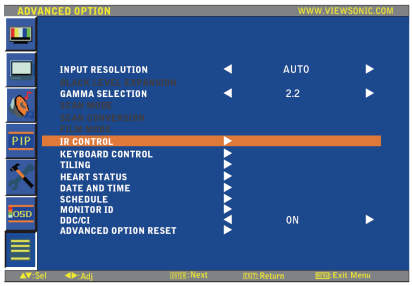


FILM MODE

* : INPUT HDMI, DVI-D(MODE-HD), S-VIDEO, VIDEO only

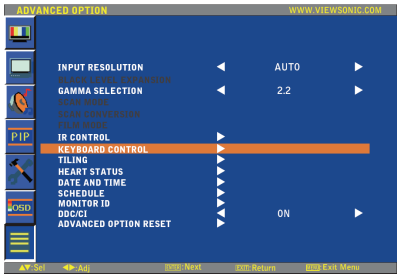
Selects Film mode function.
AUTO: Enable the Film mode function. This mode is better suited for movies, which is converted 24 Frames/sec source to DVD Video. We recommend to select "PROGRESSIVE" in "SCAN CONVERSION".
OFF: Disable the Film mode function. This mode is better suited for Broadcasting or VCR source.

IR CONTROL



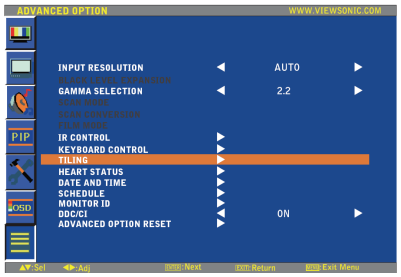
Selects the operation mode of the remote controller when multiple monitors are connected via RS232C.
The item in this menu will become effective by pressing "ENTER" button on the selected item.
NORMAL: The monitor will be controlled normally by remote controller.
PRIMARY: The first monitor of those multi-connected via RS232C is designated as PRIMARY.
SECONDARY: monitors other than the first one multi-connected via RS232C are designated as SECONDARY.
LOCK: Disable the monitor control by infrared remote controller.
Keep pressing "DISPLAY" button during 5 sec or more, this setting will return to "NORMAL".

KEYBOARD CONTROL

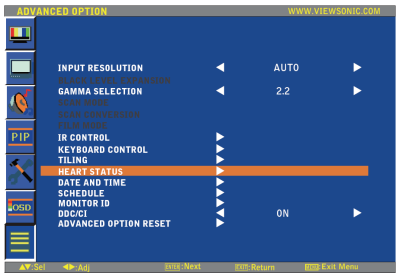


Selects the operation mode of the keyboard control.
Select "LOCK" to disable the keyboard.
Select "UNLOCK" to enable the keyboard.

TILING



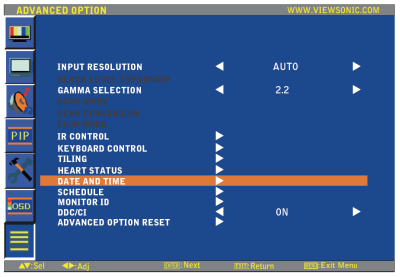
TILING demonstrates multiple screens. This feature provides a single large screen using up to 25 monitors.
It will be able to divide up to 5 each H and V.
This requires you to feed the PC output into each of the monitors through a distributor.
H MONITORS: Select number of horizontal monitors.
V MONITORS: Select number of vertical monitors.
POSITION: Select a position to expand the screen.
FRAME COMP: Works in tandem with TILING to compensate for the width of the tile bezels in order to accurately display the image.
ENABLE: Select "YES", the monitor will expand the selected position.
PIP and STILL will be disabled when "TILING" is activated.



HEAT STATUS

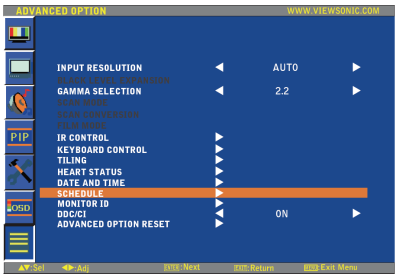
* : Disclamer: Heat sensor is indicative.

HEAT STATUS allows you to watch the thermal status at any time via the OSD menu.
The indicated temperature has a accuracy of 3 degrees (plus and minus).
Press "ENTER" button to enter the submenu to monitor the heat status.
Press "EXIT" button to cancel and then return the previous menu.



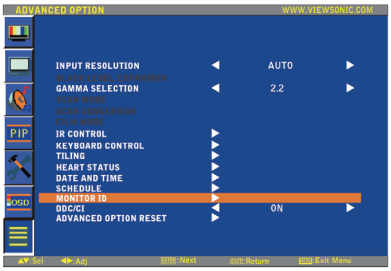
DATE AND TIME

Adjusts the current date and time for internal clock.
You should set this function when you use "SCHEDULE".



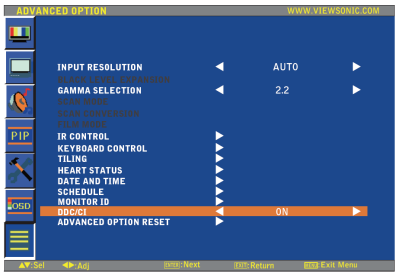
SCHEDULE

Programs the monitor's working schedule.
Schedules the power on and power off by using hour and a day of the week. Also sets the input port.
This OSD can't be removed except EXIT.



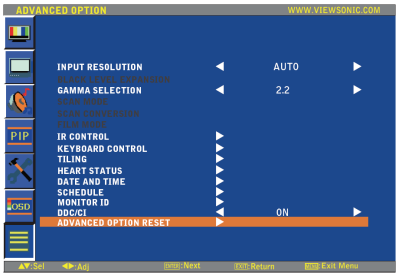
MONITOR ID

ID numbers for remote control are assigned to monitors that are multi-connected via RS232C.
ID numbers 1 to 26 are selectable.



DDC/CI

Use to turn ON or OFF the DDC/CI communication function. Select ON for normal use.



ADVANCED OPTION RESET

Selecting ADVANCED OPTION RESET allows you to reset all OSD settings from ADVANCED OPTION settings, except for GAMMA SELECTION, DATE AND TIME, SCHEDULE, HDMI INPUT MODE, DVI-D INPUT MODE,MONITOR ID, and DDC/CI.
Select “YES” and press “ENTER” button to restore the factory preset data.
Press “EXIT” button to cancel and then return the previous menu.
GAMMA SELECTION is reset when carrying out the PICTURE RESET in the PICTURE.

NOTE

NOTE 1: IMAGE PERSISTENCE

Please be aware that LCD Technology may experience a phenomena known as Image Persistence. Image Persistence occurs when residual or “ghost” image of a previous image remains visible on the screen. Unlike CRT monitors, LCD monitors’ image persistence is not permanent, but constant images being displayed for a long period of time should be avoided.

To alleviate image persistence, turn off the monitor for as long as the previous image was displayed. For example, if an image was on the monitor for one hour and a residual image remains, the monitor should be turned off for one hour to erase the image.

As with all personal display devices, ViewSnoic recommends displaying moving images and using a moving panel saving at regular intervals whenever the screen is idle or turning off the monitor when not in use.

Please set “POWER SAVE”, “SCREEN SAVER”, “DATE AND TIME” and “SCHEDULE” functions to further reduce the risk of Image persistence.

For long life use of Public Display

< Image Sticking of LCD Panel >

When LCD panel is operated continuously for long hours, a trace of electric charge remains near the electrode inside LCD, and residual or “ghost” image of previous image may be observed. (Image Persistence)

Image Persistence is not permanent, but when fixed image is displayed for long period, ionic impurities inside LCD are accumulated along the displayed image, and it is observed permanently. (Image Sticking)

< Recommendations >

For preventing the fast transition to Image Sticking, and for longer life usage of LCD, following are recommended.

1. Static images should not be displayed for long period. Always use a short cycle to change to other images.
2. In case a fixed image is displayed for a long period, it is advised to activate the MOTION feature that will periodically move the image in four directions
3. When not in use, please turn off the monitor with your remote control, or use Power Management Function or use the Schedule Function of monitor.
4. Reducing the environmental temperature will increase the life of your monitor.
   When Protection board (glass, acryl) is installed over the LCD surface, enclosed into the box / wall, or stack the monitor, please utilize the temperature sensors inside monitor.
   To reduce the environmental temperature, the monitor should be set Low Brightness or Cooling Fan “ON” by using Screen sever Function.
5. Please use "SCREEN SAVER Mode" of monitor.

NOTE 2: HOW TO SETUP SCHEDULE

Using the “SCHEDULE” function allows you to set up to seven different scheduled time intervals when the LCD Monitor will be activated.

You can select the time the monitor turns on and turns off, the day of week the monitor is activated, and which input source the monitor will use for each scheduled activation period. A check mark in the box next to the number of the schedule indicates that the selected schedule is in effect.

To select which schedule to set, use the up/down arrows to move the number (1 to 7) of the schedule.

Use the (▸) and (◂) buttons to move the cursor horizontally within the particular schedule. Use the (▲) and (▼) buttons to increase time and select input port. The “ENTER” button is used to make a selection.

If you create a schedule but do not want to use a power on time, select “--” in the “ON” time slot.

If you do not want to use a power off time select “--” in the OFF time slot.

If there is no input selected (“--” showing in the input spot) the input from the previous schedule will be used.

The selection of EVERY DAY within a schedule takes priority over other schedules that are set up to operate weekly. When schedules are overlapping, scheduled Power ON time has priority over scheduled Power OFF time.

If there are two schedules programmed for the same time, then the highest numbered schedule has priority. When the “OFF TIMER” is set, the “SCHEDULE” function is disabled.

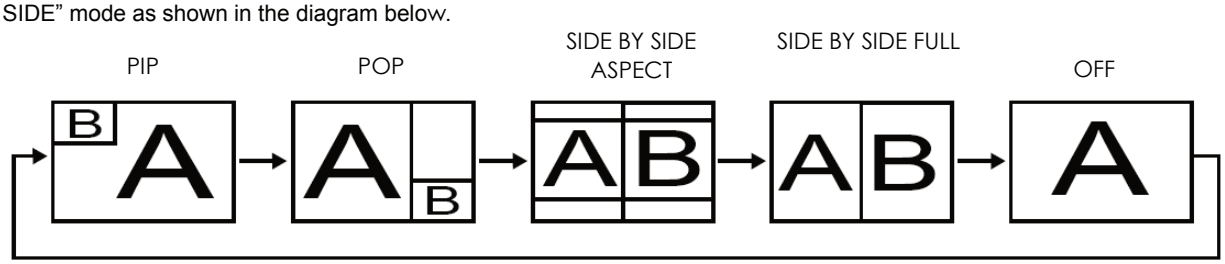
NOTE 3: “PIP”, “POP” and “SIDE BY SIDE”

The following table shows the combination of signal inputs under which the “PIP” and “POP” modes function. These modes do not function, however, when the screen size is “CUSTOM” or “REAL”.

		SUB					
		HDMI	DVI-D	VGA	COMPONENT	S-VIDEO	VIDEO
MAIN	HDMI	×	×	×	×	○	○
	DVI-D	×	×	×	×	○	○
	VGA	×	×	×	×	○	○
	COMPONENT	×	×	×	×	○	○
	S-VIDEO	○	○	○	○	×	×
	VIDEO	○	○	○	○	×	×

○: Supported
×: Not supported

Press the “PIP ON/OFF” buttons on the remote control to change between “PIP”, “POP” and “SIDE BY SIDE” mode as shown in the diagram below.



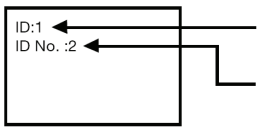
“PIP”, “POP” mode resolution (Reference)

PIP SIZE	◁ SMALL ▷	: 450 dots X 338 dots
	◁ MIDDLE▷	: 675 dots X 450 dots
	◁ LARGE ▷	: 900 dots X 675 dots
POP SIZE		: 450 dots X 338 dots

< Remote control numbering function >

By connecting multiple monitors using RS232C cables, you can control any one monitor or all the monitors by one remote controller.

1. Assign arbitrary ID number to each of multi-connected monitors using MONITOR ID. ID numbers 1 to 26 are selectable.
   It is recommended to assign sequential ID numbers from 1 and up.
2. The remote control mode of the first monitor is set to PRIMARY and those of the other monitors are set to SECONDARY.
3. When you direct the remote controller at the remote control signal sensor of the PRIMARY monitor and press the DISPLAY button on the remote controller, the ID selection OSD appears at the upper left of the screen.



ID number of the currently viewed monitor

Select the ID number of the monitor you want to control using the ▸/◂ button on the remote controller.
The ID of the monitor you want to control is displayed at the upper left of its screen.
By selecting ALL, you can control all the multi-connected monitors.

4. Direct the remote controller at the remote control signal sensor of the PRIMARY monitor. OSD appears on the monitor having the ID number you selected.

NOTE:

When the ID selection OSD is being displayed on the PRIMARY monitor, press the DISPLAY button on the remote controller again to cancel the ID selection OSD and then control the monitor you selected.

HINT:

If you set the remote control mode wrongly and remote control operation becomes unavailable, press MENU button on the control panel of the monitor to display the OSD screen and change the remote control mode using ADVANCED OPTION. By pressing and holding down the DISPLAY button on the remote control for 5 seconds or longer, the remote control mode is initialized to NORMAL.

Features

Slim bezel
A slim bezel design adds a stylish look to a public display to nicely blend in most environments. Furthermore this design is ideal for tiled matrix video walls.

Zoom function for tiled matrix
The internal zoom function enables easy implementation of a video wall matrix, without the need for expensive external equipment. Capable of a vidiwall of 25 displays by dividing up to 5 displays each horizontally and vertically.

High brightness
Allows daylight viewing even in large public environments with high ambient light conditions due to its 450 nits high brightness professional panel.

Network controllability: RS232C
Network controllability allows user to control and adjust monitors remotely through RS232C protocol.

Smart insert
Professional PC's are part of most public signage installations. Quite often they add additional depth to the public display and a lot of cable clutter. This public display contains a Smart insert in the backcover that will fit many professional small form factor PC's. In addition it offers provisions for efficient cable management.

SmartPower
The backlight intensity can be controlled and pre-set by the system to reduce the power consumption by up to 50%, which saves substantially on energy costs.

Advanced anti image sticking
Static images left on-screen for extended periods of time may leave a "ghost image" or image sticking effect on LCD displays. Although image sticking in LCD displays is not permanent, you want to prevent this to happen, especially in locations where content is shown 24/7.

Compliant with RoHS standards
Viewsonic designs and produces display products in compliance with strict Restriction of Hazardous Substances (RoHS) standards that restrict lead and other toxic substances that can harm the environment.

Automatic Long Cable Compensation:
Automatic long cable compensation prevents image quality degradation (color shift and dull signals) caused by long cable lengths.

Troubleshooting

No picture

- The signal cable should be completely connected to the graphics card/computer.
- Front Power Switch and computer power switch should be in the ON position.
- Check to make sure that a supported mode has been selected on the graphics card or system being used.
  (Please consult graphics card or system manual to change graphics mode.)
- Check the monitor and your graphics card with respect to compatibility and recommended settings.
- Check the signal cable connector for bent or pushed-in pins.
- If nothing is displayed on the screen when HDCP device is connected, reset the power of the device.

Power Button does not respond

- Unplug the power cord of the monitor from the AC outlet to turn off and reset the monitor.

Image persistence

- Please be aware that LCD Technology may experience a phenomenon known as Image Persistence. Image Persistence occurs when a residual or “ghost” image of a previous image remains visible on the screen. Unlike CRT monitors, LCD monitors’ image persistence is not permanent, but constant images being displayed for a long period of time should be avoided. To alleviate image persistence, turn off the monitor for as long as the previous image was displayed. For example,
  if an image was on the monitor for one hour and a residual image remains, the monitor should be turned off for one hour to erase the image.

NOTE:

As with all personal display devices, VIEWSONIC recommends displaying moving images and using a moving panel saving at regular intervals whenever the screen is idle or turning off the monitor when not in use.

Image is unstable, unfocused or swimming is apparent

- Signal cable should be completely attached to the computer.
- Use the OSD Image Adjust controls to focus and adjust display by increasing or decreasing the fine adjustment. When the display mode is changed, the OSD Image Adjust settings may need to be re-adjusted.
- Check the monitor and your graphics with respect to compatibility and recommended signal timings.
- If your text is garbled, change the video mode to non-interlace and use 60 Hz refresh rate.

Image of component signal is greenish

- Check to see if the COMPONENT input connector is selected.

LED on monitor is not lit (no green or red color can be seen)

- Power Switch should be in the ON position and power cord should be connected.
- Make certain the computer is not in a power-saving mode (touch the keyboard or mouse).

RED LED on monitor is blinking

- A certain failure might have occurred, please contact your nearest authorized VIEWSONIC service facility.

Display image is not sized properly

- Use the OSD Image Adjust controls to increase or decrease the coarse adjustment.
- Check to make sure that a supported mode has been selected on the graphics card or system being used.
  (Please consult graphics card or system manual to change graphics mode.)

Selected resolution is not displayed properly

- Use OSD Display Mode to enter Information menu and confirm that the appropriate resolution has been selected.
  If not, select corresponding option.

No Sound

- Check to see if speaker cable is properly connected.
- Check to see if mute is activated.
- Check to see if volume is set at minimum.

Remote Control does not work

- Check the Remote Control's batteries status.
- Check if batteries are inserted correctly.
- Check if the Remote Control is pointing at the monitor's remote sensor.

"SCHEDULE" / "OFF TIMER" function is not working properly

- The "SCHEDULE" function will be ignored when the "OFF TIMER" is set.
- If the "OFF TIMER" function is enabled and the power to the LCD monitor is turned off if the power supply is interrupted unexpectedly, then the "OFF TIMER" will be reset.

Stripe Noise

Either light vertical or horizontal stripes may appear, depending on the specific display pattern. This is no product fault or degradation.

"NO SIGNAL" is displayed on the screen

Image may not be displayed right after HDCP device is connected.

Specifications

Specifications

product Specifications		Analog Input	Digital Input
LCD Module	Diagonal:	46" / 116.8 cm	
	Pixel Pitch:	0.7455 mm	
	Resolution:	1366 x 768 dots	
	Color:	16.7 million colors (depending on video card used)	
	Brightness:	450 cd/m² (typ.)	
	Contrast Ratio:	4500:1 (typ.) , 3,000:1（min）, 16000:1(Dynamic CR)	
	Response time:	8 ms (typ. G to G)	
	View Angle:	Up and Down 178°, Left and Right 178° (typ.) @CR>10	
Frequency	Horizontal:	31.0 – 92.0 kHz	
	Vertical:	50.0 - 85.0 Hz	
Pixel Clock		13.5 -165.0 MHz	25.0 -165.0 MHz
Viewable Size		1018.353 x 572.544mm / 40.1 x 22.5 inches	
Input Signal			
PC-Input:	Video:	Analog RGB Video: 0.7 Vp-p Input impedance 75 ohm	TMDS
	Sync:	Separate HV sync: TTL level (Pos./Neg.),Input Impedance 2.2K ohm	
	Input-terminal:	15 Pin Mini D-sub	HDMI
VIDEO Input:		Composite: 1.0 Vp-p Input impedance 75ohm BNC and RCA-PINJACK-INPUT Y/C Y: 1 Vp-p C: 0.286 Vp-p Input Impedance 75 ohm S-TERMINAL-INPUT Component: 1.0 / 0.7 Vp-p Input Impedance 75 ohm BNC-INPUT	
AUDIO Input:		RCA PIN-JACK L/R INPUT x 2, STEREO Mini Jack INPUT x 1	
RS232C:	In:	9 Pin Mini D-sub	
Output Signal			
PC-Output:	Video:	Analog RGB Video: 0.7 Vp-p with 75 ohm terminated	
	Sync:	Separate HV sync: TTL level (Pos./Neg.)	
	Output-terminal:	15 Pin Mini D-sub	
VIDEO Output:		BNC-OUTPUT x 1, Composite 1.0 Vp-p with 75 ohm terminated	
AUDIO Output:		RCA PIN-JACK L/R OUTPUT x 1, 0.15 Vrms with 47k ohm terminated	
Speaker Output:		Internal Speaker 5 W + 5 W (8 ohm) External Speaker Jack 7 W + 7 W (8 ohm)	
RS232C:	Out:	9 Pin Mini D-sub	
Resolutions Supported		640 x 480 at 60 Hz 800 x 600 at 60Hz 1024 x 768 at 60Hz 1280 x 720 at 60Hz 1280 x 768 at 60Hz 1360 x 768 at 60Hz 1600 x 1200 at 60 Hz 1366x768 at 60Hz * 1920x1080 at 60Hz** 1900x1200 (reduced Blanking only) *recommand resolution for display individual ** recommand resolution for video wall application NTSC,PAL,SECAM,4.43NTSC,PAL60 DVD:480i,480p, 576i,720p,1080i,1080p	
Power Supply		2~3.5 A @115 - 230 V AC, 50 / 60 Hz	
Power Consumption		Typically 232 W	
	Power Save:	Less than 1W (Power button off or main power switch off.)	
Operational Environment	Temperature:	Landscape: 0 - 40 °C / 41-104 °F, Portrait : 5 - 35 °C / 41 - 95 °F	
	Humidity:	85 % (non-condensation)	
Storage Environment	Temperature:	-20 - 60 °C / -4 - 140 °F	
	Humidity:	10 - 90% (Without condensation)/90%-3.5%x(Temp-40°C) regarding over 40°C	
Dimension	Net without stand:	1025.25 mm (W) x 579.84 mm (H) x 120.83mm (D) / 40.36" (W) x 22.83" (H) x 4.76" (D)	
	Net with stand::	1025.25 mm (W) x634.97 mm (H) x 405 mm (D) / 40.36" (W) x 25" (H) x 15.95" (D)	
Weight	Net without stand:	52.9lbs / 24 kg	
	Net with stand:	56.8 lbs / 25.8 kg	
	Gross:	70 lbs / 31.8kg	
Wall mounting interface		12 Holes (100mm pitches) Optional Multi-purpose Fix Mount	
Complied Regulatory and Guidelines		CE,FCC,UL/cUL	
Power Management		Support VESA DPMS convention	
Plug & Play		VESA DDC2B, DDC/CI	
Accessories		User's Manual, Power Cord, VGA Cable, Remote Controller, AAA Battery x 2, Clamper x 2 (To prevent from falling), Screw for Main switch cover x2, Screw for CLAMPER x 2, Main switch cover.	

Note: Technical specifications are subject to change without notice.

Customer Support

For technical support or product service, see the table below or contact your reseller.

NOTE: You will need the product serial number.

Country/Region	Website	T = Telephone F = FAX	Email
Australia/New Zealand	www.viewsonic.com.au	AUS= 1800 880 818 NZ= 0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T (Toll-Free)= 1-866-463-4775 T (Toll)= 1-424-233-2533 F= 1-909-468-3757	service.ca@viewsonic.com
Europe	www.viewsoniceurope.com	www.viewsoniceurope.com/uk/Support/Calldesk.htm	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 11 9999	service@in.viewsonic.com
Ireland (Eire)	www.viewsoniceurope.com/uk/	www.viewsoniceurope.com/uk/ support/call-desk/	service_ie@viewsoniceurope.com
Korea	www.kr.viewsonic.com	T= 080 333 2131	service@kr.viewsonic.com
Latin America (Argentina)	www.viewsonic.com/la/	T= 0800-4441185	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	T= 1230-020-7975	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	T= 01800-9-157235	soporte@viewsonic.com
Latin America (Mexico)	www.viewsonic.com/la/	T= 001-8882328722	soporte@viewsonic.com
Renta y Datos, 29 SUR 721, COL. LA PAZ, 72160 PUEBLA, PUE. Tel: 01.222.891.55.77 CON 10 LINEAS Electroser, Av Reforma No. 403Gx39 y 41, 97000 Mérida, Yucatán. Tel: 01.999.925.19.16 Other places please refer to http://www.viewsonic.com/la/soporte/index.htm#Mexico			
Latin America (Peru)	www.viewsonic.com/la/	T= 0800-54565	soporte@viewsonic.com
Macau	www.hk.viewsonic.com	T= 853 2870 0303	service@hk.viewsonic.com
Middle East	ap.viewsonic.com/me/	Contact your reseller	service@ap.viewsonic.com
Puerto Rico & Virgin Islands	www.viewsonic.com	T= 1-800-688-6688 (English) T= 1-866-379-1304 (Spanish) F= 1-909-468-3757	service.us@viewsonic.com soporte@viewsonic.com
Singapore/Malaysia/ Thailand	www.ap.viewsonic.com	T= 65 6461 6044	service@sg.viewsonic.com
South Africa	ap.viewsonic.com/za/	Contact your reseller	service@ap.viewsonic.com
United Kingdom	www.viewsoniceurope.com/uk/	www.viewsoniceurope.com/uk/ support/call-desk/	service_gb@viewsoniceurope.com
United States	www.viewsonic.com	T (Toll-Free)= 1-800-688-6688 T (Toll)= 1-424-233-2530 F= 1-909-468-3757	service.us@viewsonic.com

Limited Warranty

VIEWSONIC® LCD Commercial Display

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

ViewSonic LCD Commercial Displays are warranted for 3 years for all parts excluding the light source and 3 years for labor from the date of the first customer purchase.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
   b. Any damage of the product due to shipment.
   c. Removal or installation of the product.
   d. Causes external to the product, such as electrical power fluctuations or failure.
   e. Use of supplies or parts not meeting ViewSonic's specifications.
   f. Normal wear and tear.
   g. Any other cause which does not relate to a product defect.
3. Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
4. Removal, installation, one way transportation, insurance, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to Customer Support page). You will need to provide your product's serial number.
2. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.

The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found in www.viewsoniceurope.com under Support/Warranty Information.

4.3: ViewSonic LCD Commercial Display CD_LW01 Rev. 1a 02-11-09

Mexico Limited Warranty

VIEWSONIC® LCD Commercial Display

What the warranty covers:
ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:
ViewSonic LCD Commercial Displays are warranted for 3 years for all parts excluding the light source and 3 years for labor from the date of the first customer purchase.

Who the warranty protects:
This warranty is valid only for the first consumer purchaser.

What the warranty does not cover:
1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
   b. Any damage of the product due to shipment.
   c. Removal or installation of the product.
   d. Causes external to the product, such as electrical power fluctuations or failure.
   e. Use of supplies or parts not meeting ViewSonic's specifications.
   f. Normal wear and tear.
   g. Any other cause which does not relate to a product defect.
3. Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
4. Removal, installation, one way transportation, insurance, and set-up service charges.

How to get service:
For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to the attached Customer Support page). You will need to provide your product's serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

For Your Records

Product Name: _____ Model Number: _____
Document Number: _____ Serial Number: _____
Purchase Date: _____ Extended Warranty Purchase? _____(Y/N)
If so, what date does warranty expire? _____

1. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
2. Take or ship the product in the original container packaging to an authorized ViewSonic service center.
3. Round trip transportation costs for in-warranty products will be paid by ViewSonic.

Limitation of implied warranties:
There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:
ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:
1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/soporte/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juarez 284 local 2 Col. Bugambilias C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	***Villahermosa:*** Compumantenimietnos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: compumantenimientos@prodigy.net.mx
Puebla, Pue. (Matriz): RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	***Veracruz, Ver.:*** CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
Chihuahua Soluciones Globales en Computación C. Magisterio # 3321 Col. Magisterial Chihuahua, Chih. Tel: 4136954 E-Mail: Cefeo@soluglobales.com	***Cuernavaca*** Compusupport de Cuernavaca SA de CV Francisco Leyva # 178 Col. Miguel Hidalgo C.P. 62040, Cuernavaca Morelos Tel: 01 777 3180579 / 01 777 3124014 E-Mail: aquevedo@compusupportcva.com
Distrito Federal: QPLUS, S.A. de C.V. Av. Coyoacán 931 Col. Del Valle 03100, México, D.F. Tel: 01(52)55-50-00-27-35 E-Mail : gacosta@qplus.com.mx	***Guadalajara, Jal.:*** SERVICRECE, S.A. de C.V. Av. Niños Héroes # 2281 Col. Arcos Sur, Sector Juárez 44170, Guadalajara, Jalisco Tel: 01(52)33-36-15-15-43 E-Mail: mmiranda@servicrece.com
Guerrero Acapulco GS Computación (Grupo Sesicomp) Progreso #6-A, Colo Centro 39300 Acapulco, Guerrero Tel: 744-48-32627	***Monterrey:*** Global Product Services Mar Caribe # 1987, Esquina con Golfo Pérsico Fracc. Bernardo Reyes, CP 64280 Monterrey N.L. México Tel: 8129-5103 E-Mail: aydeem@gps1.com.mx
MERIDA: ELECTROSER Av Reforma No. 403Gx39 y 41 Mérida, Yucatán, México CP97000 Tel: (52) 999-925-1916 E-Mail: rrrb@sureste.com	***Oaxaca, Oax.:*** CENTRO DE DISTRIBUCION Y SERVICIO, S.A. de C.V. Murguía # 708 P.A., Col. Centro, 68000, Oaxaca Tel: 01(52)95-15-15-22-22 Fax: 01(52)95-15-13-67-00 E-Mail. gpotai2001@hotmail.com
Tijuana: STD Av Ferrocarril Sonora #3780 L-C Col 20 de Noviembre Tijuana, Mexico	***FOR USA SUPPORT:*** ViewSonic Corporation 381 Brea Canyon Road, Walnut, CA. 91789 USA Tel: 800-688-6688 (English); 866-323-8056 (Spanish); Fax: 1-800-685-7276 E-Mail: http://www.viewsonic.com

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